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HLMI589	2670	572506	1 - 351	15 - 365	
HLMI737	2671	799711	1 - 220	15 - 234	
HLMI743	2672	799705	1 - 295	15 - 309	AI188748, and AI188321.
HLMI76	2673	856860	1 - 358	15 - 372	T82950.
HLMIW09	2674	799740	1 - 391	15 - 405	
HLMIW07	2675	871698	1 - 280	15 - 294	U50537.
HLMIW89	2676	799753	1 - 187	15 - 201	
HLMIW90	2677	920464	1 - 310	15 - 324	AW051629
HLMIW61	2678	727730	1 - 693	15 - 707	AI332830, AI887069, AA883715, H43750, AF031077, AF031078, and AF030876.
HLMIW95	2679	960056	1 - 683	15 - 697	HI4342, AI333974, AW015007, AI565838, AW387096, AW387086, AW062872, AW178917,

HLMV56	2680	571401	1-296	15-310	AL12052, and AB018336.
HLMV202	2681	920426	1-366	15-380	AL034408.
HLMV225	2682	825087	1-258	15-272	AL135476, and D63478.
HLMV240	2683	715586	1-241	15-255	
HLMV405	2684	932173	1-363	15-377	
HLMV430	2685	955980	1-345	15-359	AI029668, AI902983, AA291228, D31488, AA324899, D31516, AI909121, AC004235, and AC004034.
HLMV466	2686	799731	1-343	15-357	
HLMV483	2687	712447	1-491	15-505	
HLMV804	2688	968284	1-293	15-307	FI9459.
HLMV823	2689	578827	1-309	15-323	
HLMV860	2690	924974	1-341	15-335	AL042756.
HLMV835	2691	576944	1-287	15-301	
HLMV876	2692	770177	1-345	15-359	
HLMV816	2693	576612	1-308	15-322	AC011504, 293930, AC006598, AP000247, AL049759, AI.020997, U95690, and AC005049.
HLMV832	2694	920292	1-453	15-467	
HLMV876	2695	799741	1-326	15-340	AI.023653.
HLMV872	2696	760717	1-302	15-316	
HLMV805	2697	932127	1-401	15-415	
HLMV826	2698	799743	1-337	15-351	
HLMV828	2699	959900	1-173	15-187	AC002400.
HLMV889	2700	920442	1-149	15-163	
HLMV877	2701	710989	1-395	15-409	
HLMV824	2702	677303	1-498	15-512	W38578, AI476515, AW207177, AI6330843, AI340048, AI807826, AI440328, AI766156, AI7136049, AI990469, AI830815, AI951610, AI7139134, AI745414, AI620207, AI417731, AI479435, AI700511, AA342377, AW241823, AI7139388, AW439228, AI433438, AA935611, and AA872559.
HLMV882	2703	571403	1-262	15-276	AC006274.
HLMV802	2704	920427	1-352	15-366	
HLMV823	2705	881361	1-331	15-345	AC007690.
HLMV818	2706	666575	1-421	15-435	M63543, and M63544.
HLMV818	2707	678672	1-331	15-345	AI685869, AD000812, and AC002126.
HLMV808	2708	959630	1-427	15-441	
HLMV837	2709	577571	1-354	15-368	
HLMV828	2710	577670	1-447	15-461	

HLMMK39	2711	576167	1 - 303	15 - 317	AA400917, AA652249, AC005069, AL133216, AC006213, and AL021307.
HLMMN01	2712	657354	1 - 264	15 - 278	AI792650, and AP001065.
HLMMN32	2713	576180	1 - 430	15 - 444	AA299728, AI336771, T08386, H58891, AA487512, AA579399, AW408767, AA846482, AI890283, AC006538, AC004967, AL022328, Z93930, AC004983, AL132987, U91323, AC004776, AC005988, AC005308, Z98304, AL034548, AF222686, Z86061, AC007685, AP001067, AC002448, AC005342, A101930, AB020863, AC004890, AC005157, AP000046, AP000114, AC002492, AL049856, AL109618, AC007687, AF205588, AL020995, AP000317, AP000119, AP000051, AP000166, Z99128, AC005015, AC006960, and AC004921.
HLMMN91	2714	795915	1 - 387	15 - 401	
HLMMO61	2715	740655	1 - 272	15 - 286	
HLMP25	2716	576166	1 - 326	15 - 340	AI394634.
HLMP68	2717	799715	1 - 351	15 - 365	AF008203.
HLMP69	2718	754221	1 - 294	15 - 308	
HLMP75	2719	876036	1 - 323	15 - 337	H00150, and T20044.
HLMP88	2720	795125	1 - 671	15 - 685	
HLMPR20	2721	799720	1 - 432	15 - 446	
HLMPR39	2722	711503	1 - 271	15 - 285	AP000331, AP000172, AP000057, AP000125, and Y17293.
HLMPR45	2723	799771	1 - 434	15 - 448	NG2666, AA857377, AA205304, AI762045, AL022328, AC006312, AP000502, AL022326, AL034548, AL034423, AF134726, AC005668, AC005488, AC006044, and AC007537.
					AI249526, N52227, AI963514, AA404287, AA401240, AA287872, AA494038, AA700351, AA704781, AA490908, AA420998, AA421078, F32710, AI241835, AA236867, AA237066, AA188992, AC007371, AP000354, AL096701, AC005668, AC005254, AC006285, AL035587, AL121653, AL008721, AC007686, AF001550, AC002470, AL049776, AC004890, AL024498, AL117258, AC004814, AC005839, AL122020, Z98051, AC005820, Z85987, AP000557, AC005480, AF194970, AC003101, AC005578, U62293, AC005921, AL049759, AL133163, AL008729, AL008582, AP000556, AC004694, AC005702, AC005057, AL096712, AC006561, AL121769, AC004796, AL020993, AC005225, AC007308, AC004883, AC005920, AC006017, Z68276, AL022313, AC004019, AL080243, AL022163, AC004983, AC006322, AC007878, AL109653, AL035438, AL109798, AC005500, AL022328, AC005291, AP000512, AB023049, AC004231, AC0016025, AC005332, AC002422, AC005887, AF129756, AC005726, U95090, AC005082, AL121694, AC006271, AC005280, AL022318, AC004103, AC002395, AL031055, AC008012, AL023799, Z46936, AC005755, Z85986, AC007731, AC007011, AC005288, and AC002522.
HLMMT08	2724	959578	1 - 672	15 - 686	W90795.
HLMMT22	2725	799737	1 - 416	15 - 430	
HLMMT72	2726	799719	1 - 323	15 - 337	AF111170.
HLMMT74	2727	506234	1 - 353	15 - 367	

HLMM76	2728	578143	1 - 296	15 - 310	T90204, and AA658177.
HLMM76	2729	424663	1 - 289	15 - 303	W87501, AL138252, AL021938, U52112, AC004802, AC000091, AC005258, AC005519, X63735,
HLMM76	2730	799718	1 - 447	15 - 461	AC006430, AC002477, AC005264, X78262, AC008041, AC004463, AL034548, AB022785, AC005377, and AL035414.
HLMM76	2731	463919	1 - 544	15 - 558	AA490121, and AA668334.
HLMM76	2732	799706	1 - 441	15 - 455	AC004983, and AC003043.
HLMM76	2733	926188	1 - 436	15 - 450	AL021541, AL080837, AL192451, AL054048, T29020, AW084519, AA614014, AW271140, AW207518, AA525796, and D30758.
HLMM76	2734	935621	1 - 259	15 - 273	
HLMM76	2735	953833	1 - 343	15 - 357	AC002302.
HLMM76	2736	577160	1 - 293	15 - 307	
HLMM76	2737	702478	1 - 270	15 - 284	U63312.
HLMM76	2738	577153	1 - 341	15 - 355	AC002313, and AC002111.
HLMM76	2739	716797	1 - 372	15 - 386	AA604843, H83509, AW069227, AA664604, F33893, AA878140, AL079294, AA604865, AW302048, AL1689019, AL179871, AW438616, R92640, AW103383, AL171418, AL275183, AL634187, H79633, AL157313, AL002261, AA448838, AA574442, AA508873, AA613754, H53894, R95748, AL307201, AA311071, AA357987, R83385, AW189068, AA812058, AA613754, H53894, AW402145, AL754291, AA602458, AA528390, T03412, AL124798, R96643, AA393830, AA350886, AL939442, AL062030, AL289962, AA668587, AA558003, AL571543, F79541, AL963866, AL669102, AA488419, W45215, AW275953, AA488620, AA508578, AL500453, AL832865, AL708005, AA832145, AA599495, AL173701, AL279759, AA662974, AW088038, AW238016, AL627581, AL609223, AA721235, R32162, AL292236, N67387, AA457771, R59868, AA302970, AA610509, AL190505, AW072923, AA309287, AA706209, AA601986, AA569510, AW189353, F03525, AA461308, AA744036, AA904137, AA669647, AA599352, AL569517, F17858, AA492298, AA513141, AC002312, AL049779, AL031291, AC006441, AL131757, AC016026, AF207550, AC005788, AL050318, AL008723, AC007243, AC004383, AF111168, AC007386, AP001054, AC005046, AL031602, AC000379, AL133448, AC004230, AL031447, AL031597, AC005911, AC004149, AC005908, AL049843, AL022324, AC003037, AF001549, AL035258, AC003003, AC006965, AP000346, AC006515, AL031591, AC007051, AC007032, AC005004, AP000553, AP000347, AL049872, AL031595, AL079305, AF178030, AL035420, AL078624, AC002336, AP064658, AC007845, U96629, AC006285, AC004453, AC007057,

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HLMW5 5	2740	815997	1 - 215	15 - 229	H59354.
HLMW7 1	2741	761346	1 - 239	15 - 253	AA300028, and AA299804.
HLMW7 7	2742	577150	1 - 290	15 - 304	
HLMW19	2743	861317	1 - 580	15 - 594	AA630476, AT079998, AB60521, AL174703, AW403177, AL036896, AA382050, AA433952, AL121039, AT020049, AW020094, AA526542, AA452283, AL552546, AW265468, AL572680, AW419201, AA491941, AW410409, AW021399, AS147110, AA631915, AW146994, AB19419, AA084439, AL525005, AL524463, AA601376, AA199578, AB13920, AW023975, AD065031, AT798521, AA809125, AL570067, AW243817, AA493546, AL114543, AA640305, AW108844, AL150934, AA133568, AA199582, AT732690, AL439525, AL567676, AL242236, AA167656, AA524604, AL003068, AT753904, AA814719, N27362, AA598608, AL064968, AA632355, AT744963, T34066, AL568376, AB892936, AW104161, AL052366, AL899177, AW085626, AA552522, AA533066, AA557945, AT02018, AL343986, AT01898, AA601712, AL704740, AT745666, AW007420, AW069273, AW151247, AA593168, AL044966, AL445768, H53546,

				AW182182, AA551105, AL148618, AL031759, AL285651, AA524800, AL040051, AF075913, MT7888, AA600127, AL760835, AA533040, F23338, AA482725, AA493245, AL312614, AL037910, AL073320, AW192930, AL311796, AA525753, AL925588, AA421536, AL308529, AL003147, AC005730, AC002310, AL079342, AC007367, AL049869, AC005484, AF000512, AL049694, AC005619, AF129756, Z98742, AC005921, AC006597, AC004796, AC004150, AC005071, AC005696, AC004659, AP000552, AC005412, AP000504, AF005588, AF111168, AC004997, L44140, AC005585, AC005602, AC002314, AC005971, Z97054, AL020995, AC006511, AL022721, AL080286, AC006011, AC002091, AC004922, AC005082, AC005828, AC005632, AL022316, AC004895, AC018633, AL121658, AC008044, AC004967, AC005457, AC005529, AB017602, AC004895, AL022165, AL049697, AL031575, AC004477, AC004859, AP000499, AC004692, AC005365, Z84466, U91318, AC006530, AL080243, AF134726, Z83838, AC000025, AL031848, AC005041, AC012384, AF196779, AC007546, AL080317, AC005919, AL009181, AF165926, AP000952, AC007160, AF075069, AC003685, AC004999, AC002470, AC002404, AC005261, AC005876, AC005746, AB026898, AC008372, AL133448, AL080250, AL121652, Z97630, AC006121, AE000638, AC005046, AC005913, AC002366, AC006080, AL133243, AC005193, AC006509, AP000346, AL049830, AF053356, AL031668, AF060568, AC005037, Z83844, AC005524, AC004805, AC002349, AP000503, AC005280, AL117337, AC004686, AL031666, AL133304, AC005519, AC005599, AL133289, AC004703, AC007421, Z95930, AL044420, AC005754, AC005695, Z84469, AD000671, AC007371, AF053587, AL024474, AC006088, AC006544, AL035445, AL021154, AC002364, AC004552, AC005410, Z95244, AF001548, AL049795, AC002996, AC003665, AC004084, AL022149, AL034402, AC005479, AL079295, AC006211, AC006512, AL031433, AL133163, AC005740, AL022163, AC006581, U52112, AC002126, AC007899, AC005387, AL008582, AC004821, AF038458, AC007390, AC004893, AC007842, AC005231, AL136504, U91327, AL031311, AC007564, AC003982, L47225, AC005666, AC002312, AC003007, U80017, AC005755, AC005089, AC006312, AL031657, AC005881, AC007566, AL121655, AP000553, AC006515, AC007510, AC006449, AC005081, AC005856, AC004814, AC007381, Z84474, AC004223, AC004082, AC005317, AC007192, AL117258, AC002551, AC006241, AP000365, AL117330, AC004228, AC007226, AC004125, AP000547, AC003991, U78027, Z77249, AC004969, AC012099, AL031427, AL031290, AC005393, AC007124, AL050324, AC004797, AL136130, AC005232, AC005031, AC006116, AL121754, AL049764, AL031678, AL031680, AC002120, AC002506, AC005694, L47226, L47224, AC004752, AL035659, AF196969, AC004804, AL120233, AL000091, AL121657, AC003025, AC005015, AL034417, AL022323, AC005822, L78810, AL136295, AC006960, AL132712, AP000556, AC007227, AL034343, AL049777, AC004783, and AC006946.
HILMXX57	2744	724985	1 - 375	15 - 389
HILMXX72	2745	760651	1 - 221	15 - 235
				W73175, W73147, and AF06335.

HLMMX73	2746	764455	1 - 334	15 - 348	AW020095, AI358885, AI686576, N22276, AI859693, AA810985, AW161402, AI811192, AA420722, AI440238, AI334893, AI340604, AI345639, AI449960, AI310930, R80916, AI345745, AI371163, AI348995, F35534, AW084447, AI363495, AA761079, AI254457, AI312993, AW021059, AI680194, AI345014, AI520964, AI624138, AI002285, AI440397, AW089379, AI348895, AI045672, AI758538, AI567582, AI307520, AI345026, AI307454, AI352363, AI345562, AI040664, AI310592, AI345817, AI288076, AI344808, AI345739, AI345674, AI671642, AW021189, AI312143, AI349637, AI312168, AI344843, AI334970, AW071276, AI344779, AI310927, AI307515, AI307578, AI336488, M85164, AI133640, AI137479, Y10655, AI122093, AI050116, AF033827, AI137267, AI049276, AI117435, AI175903, U79457, AB007812, Y0915, AI122110, AI117575, AI117438, AI022283, I52013, AI049426, AI137465, AI137641, AI110280, AB016226, AF118090, AI117457, AI136842, AF201468, AI137262, U89295, AF145233, I33391, AF069506, AI137258, AF042856, E13052, U53505, and AI110269.
HLMMX85	2747	783429	1 - 192	15 - 206	AI050812, AI827703, AI827584, and AF127916.
HLMMY01	2748	916636	1 - 568	15 - 582	AI135357, AI064815, AA707879, AC006947, AC005399, AC005037, AC002563, AC005411, AC004148, AI024507, AC004106, AC002470, AI121652, Z83822, AC005338, AI096791, AC005031, AP000555, AC004998, AC007129, AC004491, AC006430, AC005921, AI022320, AI096763, AI031680, AC006271, U80017, AC005300, AC005666, AI049779, AC005180, AC007685, AI031311, AI031643, AF200465, AF111169, AI121578, AC007773, AC007263, AC006441, AC006946, AI021154, AC006966, AC007649, AC006515, AI022312, AB003151, AF139813, AI133353, Z83844, AC005179, U52111, AC005821, AC003684, AC005332, AC002045, AC002430, AI009183, AP000044, AP000112, AI121655, U95742, AC005620, AC007066, U95743, AC007384, AB020868, AC004983, AP000690, AC007216, Z97876, AF024534, AC002330, AF111167, AC004499, and AC006014.
HLMMZ16	2751	927659	1 - 143	15 - 157	AI832562, AI115758, AI112944, and Z93784.
HLMNA14	2752	918207	1 - 680	15 - 694	AW007018, AI797782, AI082366, AI040621, AI961043, AI568510, AI479909, AW243347, AW005434, AW02053, AW205104, AI950423, AA220947, AI824907, AW136734, AA932943, AA227014, AI937632, AI654366, AI968787, AW137409, AW136138, AW137226, AA126260, AI392819, AI420238, AI656029, AI420881, AW051726, AI199430, AI767282, AI206270, AI700009, AI245711, AI738987, AI738427, AI860164, AW302243, AI936399, AA888132, AI805239, AI738749, AI744889, AW197199, AA218581, AI568827, AI382249, AA662157, AA398373, AA887699, AA582927, AI276364, T85626, AI878821, AI684228, and AI498040.
HLMNA84	2753	577572	1 - 725	15 - 739	AI554874, AA228131, AI227984, AW377797, AI227774, and AA227773.
HLMNA88	2754	856809	1 - 428	15 - 442	AA935028, AW002831, AI507814, AI186438, T06210, AA592584, AA558404, AA303055, T94140, AW104163, AI870453, AA565135, AI772906, AI668291, AA225406, AW272294,

HLMNIA91	2755	765862	1 - 434	15 - 448
HLMNIB08	2756	959559	1 - 348	15 - 362
HLMNIB94	2757	573838	1 - 245	15 - 259
HLMNIB84	2758	760695	1 - 348	15 - 362
HLMNIG08	2759	876147	1 - 902	15 - 916



HLMNG68	2760	921008	1 - 328	15 - 342	H01560, and A034373.
HLMNH23	2761	787043	1 - 419	15 - 433	
HLMNH25	2762	575921	1 - 393	15 - 407	
HLMNH37	2763	920361	1 - 357	15 - 371	W92492, and T80433.
HLMNI69	2764	531356	1 - 224	15 - 238	
HLMNI01	2765	835623	1 - 256	15 - 270	AC003111, and AC004798.
HLMNL06	2766	935626	1 - 456	15 - 470	L44341, A2283762, A2325204, A2282978, A150394, A1460103, A130647, F19258, AA601492, A1679379, A1679888, H54443, AA079421, H55779, A172908, A1364488, F13749, AA467730, AA847099, AA603323, A135643, H84359, H62778, A1751162, A1616228, A1124660, AA878149, A1696793, A1047317, A1537185, AA078677, AA443065, N55337, AA714140, A1025517, A1709066, A225155, AA658235, A1689019, A1726435, A1193694, AA947837, AA554293, AA482757, A1138344, AA526514, C06471, A1867044, AA654627, A1039187, H69388, Z30128, F29989, R54896, A1286264, AA650244, AA776971, AA772016, AW238127, AA385100, A1358229, AW406755, A1667877, A157005, A1365988, A1028510, AA310218, AA558697, A2399601, AW003434, A1610603, A17339687, A1801591, A1914913, A1635272, A2021552, A1499503, A558269, N87410, AA826144, AA243452, AA321719, AA310158, AA496901, W38648, A101218, AA482788, A1287528, N43757, A1040462, D50653, AA077952, AA252763, AA516207, H68112, A1041368, A1721917, AA450199, AA577748, A1345522, A1357551, AA569202, A134844, A1287787, A1561335, A1907884, A1913017, A1119438, A1149915, A1921649, A1378729, AA282696, AW304531, A228329, A1005529, AC004854, A1096701, AC003035, A1035400, AC007688, A1109984, AC006283, AC002430, AC016025, AC007384, AC006273, AC005086, A1033539, AC005089, AC005527, AC000025, AC005288, A121694, AC002991, AC005971, AC004794, AC000076, AC005399, AC005839, AC018769, A148319, AC006996, A1031577, AC005531, AC004098, A117258, AC004531, AC004386, A109827, AP000502, A1021808, A1021707, AC006449, AC002480, AC006476, AF196779, A1021546, A1049757, AC007546, AC005062, AC007021, AF128893, A1031281, AC006013, AD000090, A1034349, A1050325, A1031885, A1034420, A1133382, Z86990, AC006509, AB017654, AC004076, AC005041, A1050541, A1080242, AP000692, Z83649, AC009501, AC005284, AC003046, L78833, AC005324, AC006012, AC006033, A1132642, AF053336, AC004622, A1031255, AC005932, AB003151, AC007199, U52112, AC002418, AC004966, L78810, A1035415, AC005932, AB003151, AC007199, U52112, AC002418, A1080243, AC005696, Z82198, AC006501, AC006130, AC008101, AC004916, AP000459, AC007226, A1096763, A1133371, AC007845, AC005914, A1049539, AC004596, AB023052, A1023513, AC007216, A1031650, AC004019, AC000015, A1034419, AC005746, A1132712, A1031280, AC010205, A1022237, A1034423, AC008079, A1049795, AC006064, AC004236, AC005409, AC004913, AP000128, AP000206, AC010197, AC007878, AC006511, U73168, AC003958, AC005940, A1034429, A1008629, AC005776, AC000134, A1035407, A1034491,

HLMLN08	2767	839948	1 - 402	15 - 416	AC004975, AP000215, Z93783, AC004895, AC002554, AC005049, AC002116, AC005837, AC004099, AC005225, AL022721, AP000474, AC002476, AC007030, AC012599, AC002336, AC005786, AC003667, Z84480, AP000704, Z83822, AP001051, AC005019, AC002565, AL023803, AC002316, AC006111, AC002470, AC004534, AC002064, AC005193, AC003527, AC002485, AL049788, AL133304, AL031848, AL024498, AF107885, AC006530, AC005209, AL034417, AC0004152, AF027390, AC000021, AC000022, AF164343, AC003353, AC0020663, AC007707, U62317, Z85987, AC004542, AC002350, AC005944, AC007327, AL10114, AL110502, AL023807, AC004478, AF030453, AC005498, AC007228, AC005536, AL049779, AC005879, AC006041, AL034350, AL035681, AC002984, AC006055, and AL031053.
HLMLN108	2767	839948	1 - 402	15 - 416	AW291682, and AW084373.
HLMLN123	2768	675970	1 - 323	15 - 337	
HLMLN155	2769	964739	1 - 268	15 - 282	
HLMLN157	2770	575900	1 - 132	15 - 146	
HLMLN164	2771	578627	1 - 296	15 - 310	AW237905, AL279417, AL137946, AW327852, H93152, N59744, AL284543, AP033111, AP015081, AL284092, T56025, T08386, H79586, AT798313, AA807579, R83068, AA584884, AL251944, AL890862, AL524022, AL121130, AL251034, AA878407, AA010973, AA302978, AL10337, AL280574, AL61090, AW128881, AL859906, AL358712, AL421950, AL884861, AA610255, AA65980, AL859438, AW410481, AL046416, AW026305, T07225, AA378474, AA834764, AW188791, AL254770, AL254508, AA372736, AL188049, AW090629, R49266, AA683091, AA350406, AA371410, R88803, AA215585, AW247389, AA047849, AA636102, N47855, AW132097, N52323, N33851, AL914713, AW265688, AL254798, AA343894, AC004099, AP000301, AF039906, AC005046, AL008718, AP000208, AC005188, AP000247, AJ246003, AC004841, AC012085, AP000045, AP000555, AB000658, AC004185, AF001548, AC004451, AL109827, Z98752, AC004491, AC003957, AP000509, AC004821, U85195, AP000692, AC006088, AL121653, D84394, AL096702, AL035072, AC006323, AC004777, AP000356, AF109907, Z82190, AC005409, AL023513, AC004770, Z98200, AL022396, AC004228, AC002045, AC006948, AL035461, AL031985, AC003692, AC004858, Z75887, AC000057, AL050343, AC0004814, AC005317, AL121658, Z97056, AC002404, AC002336, AC004477, U91323, AC003280, AC006953, AC005288, AF015720, U80017, AC005588, Z75887, AC000057, AL008383, Z84466, AC007953, AC007228, AC000085, AF196969, AC002039, AC004656, AD000092, AC004409, AC005378, Z83840, AC005740, AL031281, AL049576, AL133246, AL020997, AL033086, AC002369, AC004999, AC005156, AL109963, AC005067, AC006511, AC004129, AC004796, U91318, AL009031, AL022238, AL021879, AP000553, AC002476, AC005484, AL023807, AC007376, AL031622, U93305, AC005538, AL133382, AC005924, AC005089, AC009516, AC002477, AL049780, AC003956, AC007450, AC007214, AC006441, AL117330, Z83826, AC004983, AC006958, AJ229041, AL050348, AL031594, Z93020, AC007157, AC005095, AC006040, AF031076, AL034418, AC002551, AC005180, AC006312,

HLMMN19	2772	668746	1 - 428	15 - 442	AF217403, AL009051, AC007899, AC006537, AL080317, AL034423, AC009247, AF030453, AL024493, AC006059, AC005274, AC004623, AL031589, AC004844, AC002316, AC007934, AC004583, AC004706, AL080243, AC007066, AL021393, AF000130, AC003026, AL009172, AL008639, AC005972, AC009248, Z82215, AC005037, Z98949, AL049843, AC004583, AC006538, AC005772, AC006947, AL031659, AC004383, AP000065, AC005213, AC004884, AF111168, AC004950, AL049871, AC008372, AC004097, AC005316, AP006096, AL049830, AL049793, AC005102, AL022327, U95740, AC005881, AC006362, AC004804, AC007406, AC006241, AL049759, AC007381, AC005233, AC007666, AC004629, AF003626, AL035681, AC002381, AC004386, AC002994, AC005726, AC004854, AC005291, AC006468, AC002425, AL035659, AC006000, AC005391, Z93023, AC005088, AC004859, AL022476, AC007308, AP000103, AC006160, AC012627, AC006277, AP000359, AC004967, Z83844, and AC004526.
HLMMN39	2773	577649	1 - 437	15 - 451	AC007240, AB000876, AC004181, Y14768, AP000505, AB000882, and AC006011.
HLMMN44	2774	577106	1 - 187	15 - 201	AA532744
HLMMN461	2775	575889	1 - 342	15 - 356	R44592, AL284595, AA572975, AA017690, H71585, AA744272, AL611440, AA515224, AA743966, AB59469, AA243452, NZ5037, AA601270, AA807579, AL56264, AL040051, Z83840, AF130343, AC004150, AC001228, Z95115, AC006021, Z97876, AF196779, AP000247, AL117694, AC004890, AC006484, AC006512, AL096791, U47924, AL034420, AC005899, AC003037, AL022238, AL109827, AL022316, AC006539, AL049757, AC002544, AC012083, AC002059, AC005874, AF134471, AL132712, AP000553, AC006023, AC009516, AC005353, AC006239, AC005081, AC004963, AL135745, AC012384, AF001548, AF106656, AF053356, U07563, AP000475, AC007666, AL121638, AL121653, AC020663, AC007114, AP000008, AL133448, AC003370, AC004079, AC000026, AC007011, AC005233, AC005488, Z82203, Z85986, L48038, AC007055, AL135783, AL035659, AC004859, AC004821, AC007156, AL096701, AC006146, AL031681, AC005064, AC004955, U95742, AC004989, AC003015, AC004983, AF059675, AL022320, AC007193, AC004816, AF001550, AF190465, AC016025, AC006380, AC004258, AC004895, AC003362, AL021546, AC005330, AC004909, AC005399, AC005157, AP000501, AC005952, AC005015, AL008582, AC004583, AC005668, AC002070, AC005786, AC004885, AC002477, AC008123, Z81450, AC004543, AL050318, Z93783, AC006261, AC004013, AL117352, AL022326, L29766, AC005841, AP000472, AC005971, AC007216, AC005755, AC004408, AC004662, AC005225, AC004655, AF019413, AC0060978, AL031594, AB023054, AF111168, AC005484, AC005202, AC005291, AC004921, AC006014, AC005180, AF165926, AF000031, AF064861, U91326, AC003689, AC006948, AC006042, AC007686, Z86090, AC006480, AL035451, AC008372, AC005562, Z93018, AC005837, and AL021977.

HLMN02	2776	920296	1 - 387	15 - 401	AA077367, AA678404, AA631482, H11448, AL018726, AW075863, AL439045, AA627180, AW080061, H57324, AA767864, AA078725, AA809049, AI751049, AA613450, AL821659, AA643451, AA806116, F24531, AE690762, AI690497, AA558404, AA657910, AI732243, AA603432, AI903464, AW084152, C05882, AA838162, AA774006, AL537814, AA706845, AA429481, F31203, H69179, AA658018, AW409692, AA507526, AW069227, AA640252, AW074839, R33826, AI694178, AA683154, AA372881, AI251576, AI634187, AA720750, AA985145, AW117831, AA728890, AL306232, AA482786, AI457313, T98651, AL139302, AI583466, M60806, AC007725, AC005412, AC006050, AF042084, AC000050, AL031681, AL022336, AC009363, AF111167, AC008008, AL023575, Z82976, AC005245, AF031077, AC004132, AR06471, AC005295, AL031427, AC007205, AC004975, AC005839, AL079301, AL031602, AC004662, AC007227, AI251973, AC005006, U65406, AC004836, AC009247, AI096791, AC005231, AC002040, Z67997, AC007421, AL022166, Z83820, AC006312, U29953, AC004396, AC004134, AC004983, AC008119, AC009399, AC005740, Z68226, AC004878, AI049697, AC002550, AC004143, AC003109, AL021368, AC005355, AI006698, AL133241, AL121769, AC004019, AC006480, AP000967, AL031670, AC007676, AL021937, AC004962, AF200465, AC005399, AC008012, AC018725, AC006512, Z82097, AC004967, AL008734, AC005902, AC006597, AL009182, AC004016, AC004796, AC003964, AP000547, AL009181, AC005747, AC006581, AC007040, AC007312, Z93023, AC005615, AC002036, AL078581, AL022098, Z83986, AC005670, AP000354, AC006014, AC005514, Z82198, AC005895, AB028660, AL031735, AC005089, AC006112, Z82172, AL132777, AL049874, Z85988, AC005071, AC006211, AL049651, AF000223, AC004447, AF170815, AC004007, AL049557, AC005087, AC007993, AC007968, AC004492, AC004030, AC006084, AC005838, AI000219, D89927, AC002400, U02047, Z92542, AC004535, AL031588, AC003686, Z81450, AC004820, AC004652, AC006505, U91321, U95740, AB023049, AL033547, AC006388, AC005202, AF121781, U73169, AC006213, AP000228, S83170, AF196969, AF031075, AC006160, AC004528, Z95116, AL035079, AL022316, M37468, AC005863, AC005548, Y11107, AC004798, AL096755, AP000140, AC005488, AL078583, AC005924, AL031053, AL021878, U52112, AC006205, AC007435, Z69667, AC004589, AC002310, U63630, AF146367, Z99755, AC003104, AF124523, AC008928, AL049795, Z97056, AC004896, AL035045, AC006208, AC006441, AC003070, AP000088, AP000513, AL117344, AD000092, AF001552, U51022, AC007899, S77164, AP000694, AC004485, AP001549, AC005036, AC005621, AL049861, AC009248,
HLMN03	2777	968377	1 - 539	15 - 553	AA669135, AI659433, AA744875, AL418094, and N86865.
HLMNQ35	2778	575906	1 - 339	15 - 353	AA115833.
HLMNT27	2779	752366	1 - 290	15 - 304	
HLMNT62	2780	745733	1 - 240	15 - 254	
HLMNU73	2781	577693	1 - 443	15 - 457	
HLMNW94	2782	577157	1 - 382	15 - 396	

HLMNW96	2783	799745	1 - 303	15 - 317	AC005829, AC005694, AL121825, AC002978, Z82188, AL022318, AC007226, AF030876, Z82245, AC002492, U73647, AC007229, AC002389, AC004253, AC004099, AL040966, AL024498, AC005387, AL080242, Z81365, AC005793, AF193805, Z84469, AB015555, AL008582, AF050154, AF036405, AL033382, AL035249, AC005180, AP000403, and AC002549, AC005786.
HLMNX15	2784	660316	1 - 283	15 - 297	
HLMNX33	2785	702477	1 - 409	15 - 423	
HLMNX74	2786	765800	1 - 390	15 - 404	
HLNSF63	2787	509519	1 - 373	15 - 387	
HLNSG27	2788	684650	1 - 445	15 - 459	
HLNTAA66	2789	503025	1 - 296	15 - 310	
HLTAA94	2790	503019	1 - 263	15 - 277	
HLTAI12	2791	971523	1 - 880	15 - 894	N62681, AW294240, H52686, AA084683, R000069, H73623, R97012, and AC004263. AA360344, and N43168. AA360440, and AA360442. AA902933, AA041224, AL078764, AA252233, ALB73074, AV389244, AL141267, AL218278, H48161, AA235335, R76651, AL243996, AA360624, H49948, AA234675, R55221, AA011520, AA361876, AW021446, N63621, and R55222.
HLTAI56	2792	960750	1 - 305	15 - 319	AA360647, and AA361867.
HLTAL59	2793	508603	1 - 294	15 - 308	AA360498.
HLTAR67	2794	578467	1 - 325	15 - 339	AA360891.
HLTAR90	2795	524360	1 - 507	15 - 521	AA360930, T50676, F35684, AA302978, AA652868, AA878140, AA604550, AL912401, AA568204, AA570740, AA483606, AL136353, AL583142, AA846923, AA643770, AL362442, AA302661, AA297006, AW304699, AA507498, H84412, AL185394, AC002470, AC005529, AF001552, AC005324, AC005280, AF109907, AP001134, AL035400, AC004966, Z98304, AC005520, AC008072, AC002492, AC007308, AL049569, AC005081, Y18000, AF001052, AC006530, AL133246, Z95152, AC004838, AC002480, AC005821, AC003080, AC007327, AC005516, AC003982, Z97053, U91326, Z99127, AL050312, AC004383, AC012384, AL022316, AL031321, U96629, AC005913, AL050348, AL031230, AP000208, AC007051, AF053356, AL035405, AF088219, AP000503, AF134726, AC004531, AC004796, AC002429, AC004692, AC006001, AL049776, AF196971, AF038458, AL049759, AC005730, AC005874, AF134471, AP000212, AF030453, AC004622, AC000333, AC006261, AL050318, AL022313, AC006111, AL021453, AL049538, Z98884, L44140, AC004263, AC005180, AL096791, AC008273, AC004253, Z98048, AL023803, AC007686, AL022320, AC007637, AF111168, AC006040, AF111169, AL139054, AC005839, AL031291, AC007993, AL031295, AC009516, AC005755, AC004805, AC005231, AC007225, AB001523, AC002558, AP000113, AC005089, AC005822, AL022165, AC005041, AC007204, AF000088, AC006539, AF196970, AC003101, AL121603, AL022311, AL035086, AC007151, AP000359, AC005360, AL096701, AL049872, AF047825, AL034351, AC005189, AL034549, AC004644, Z83822, AC002565, Z93017, AC004854.

HLTA722	2796	508592	1 - 314	15 - 328	AC004098, AP000228, AC006597, AC004668, AC020663, AC005488, AL031680, AC004876, AC009044, AC000134, AL031432, AL022067, AC005412, AC004542, AC004491, AC007664, AC002094, AC006026, AC007371, AC005086, AC004526, AC002072, AC002477, AC004851, AL049780, AP000140, AC002544, AC004859, AP000350, AC004382, AC006312, AC008115, AC005625, AC005914, AC006480, AC004964, AB020868, AC004882, AF024533, D87675, AF196779, AP000298, AC006064, AL049843, AL022336, Z83844, AL096678, AC002425, AC006088, AL031279, AF039906, AC002997, AC008044, AL021155, I34294, AC003110, AC003663, AL117694, AC007676, AF196969, AC004584, AC006241, AC006388, AC005970, L78833, AC006101, Z98051, AC004797, J0031147, AC0072316, Z83826, AC004821, AC005082, AF030876, AL031685, AC005531, AC005844, AL034548, AL079342, AF000704, AC004150, AC007055, AC005736, AC007226, AC004752, AC006125, AC006305, AL022329, and AC006254.
HLTA722	2796	508592	1 - 314	15 - 328	AA360946, and AA361888.
HLTA793	2797	575133	1 - 360	15 - 374	AA360810.
HLTAU67	2798	703103	1 - 337	15 - 351	AA361018, AA361017, R38095, AA322883, R57856, and AF023244.
HLTAU36	2799	536674	1 - 289	15 - 303	AA361102, AL040178, AF039235, AA315994, AL16936, and AA358918.
HLTAU69	2800	755707	1 - 585	15 - 599	AA361122, and AL033714.
HLTBL46	2801	508925	1 - 494	15 - 508	AA361407.
HLTBN29	2802	703295	1 - 452	15 - 466	AA361696, AC003026, AL09613, AL121653, AL109758, and AC005378.
HLTB049	2803	839804	1 - 345	15 - 359	AA361716, AA361734, C14792, C15837, C15309, C14683, C15809, and AC005670.
HLTB004	2804	928005	1 - 430	15 - 444	AC004956.
HLTBW51	2805	522881	1 - 340	15 - 354	AA361990.
HLTBX34	2806	856609	1 - 244	15 - 258	AA362009, AA339932, AA307975, AL921692, AA230221, AA610255, AL074006, AL567831, AL445768, AL340858, AA586553, AL89648, AL613487, AL336206, T08386, AA774119, AA470490, AA362440, F16409, R79396, A828613, AL434103, AW407007, AL24558, H01852, AL114645, AA358531, AA829693, AL038842, AA525238, AA112864, D25667, AA655037, AL134332, AA523718, AL744890, AL744381, R48980, AA661554, AW169469, AL157876, AL752977, AL543999, AA046906, AL46574, AA446931, AL636422, AA828840, R64110, AL729004, AL620354, AW338633, AL799683, AW070901, AA640661, AA657544, AL038841, AA510300, AL078143, AW028376, T16147, AA468289, AL732682, AL196287, AA4010265, AA654464, AC004922, AC003092, AL031118, AC002310, AC006088, AC005607, AC005003, AC006449, AC005520, AL049562, Z82246, AC005920, Z82182, AC003688, AC004674, AC004242, AC006001, AC005971, Z82203, Z99716, AC005924, AC005822, AB014532, AC008115, AL121653, AF196779, AC006441, AC005696, AL023807, AC009248, AL031295, AC004491, AL023118, AC005391, AL024498, L44140, AC007066, AC007934, AC007229, AC003037, AL031848, AC005598, AC007201, AC007314, Z98044, AC005747, AC005519, AC012627, AL035681, AL035587, AC002400, AC006160, AC005399, AL139654, AL031577,

HLTCU66	2807	417344	1-404	15-418	AA845560, AA361368, and AA361192.
HLTCM12	2808	888630	1-346	15-360	
HLTCQ51	2809	725845	1-660	15-674	
HLTCU58	2810	839556	1-576	15-590	
HLTC175	2811	766511	1-337	15-351	W32922, and AL814997.
HLTCU58	2812	625309	1-352	15-366	AW451945, AW926743, AA361764, A1082182, A1653128, A1873281, AA608839, A1610135, AW367467, and AW330308.
HLTCV43	2813	715525	1-355	15-369	
HLTCV37	2814	535289	1-185	15-199	
HLTCV63	2815	574712	1-189	15-203	
HLTCZ25	2816	574704	1-110	15-124	
HLTCZ37	2817	574705	1-413	15-427	AW134673.
HLTDG32	2818	574699	1-274	15-288	
HLTDG90	2819	574698	1-353	15-367	
					AC005753, AL023380, Z97056, AF111169, AL023116, AC004686, AL132992, AC004765, AL133448, AF088219, AC007376, AC005261, AK036572, U91338, AC005015, AC005253, AC004023, AC004019, AC000046, AC000385, AC005744, AL117329, AL109827, AC004913, AC005618, AF111168, AL031670, AC005200, AC004816, AC000689, AC004832, AL002320, AL035411, Z83820, AC005368, AF000553, AC005280, AC009316, Z298048, AL080243, AF000314, AP000510, AC004263, AC005049, AC004262, AC00353, AF107885, AC000205, AC003029, AC000041, AC005911, AL049650, AC004451, AC004477, AL031575, AC003046, AC003102, AL049569, AC006511, AL031591, AB023048, AF000512, AC004668, AL136363, AB019438, AC006261, AL049761, AC002477, AC005225, AC009464, AC002456, L78810, U18270, AL023879, AC002991, AC006101, AC007537, Z98749, AL008721, AF001549, AC005695, Z74619, AC006959, Z82198, AL049869, AP000704, AL049743, AC005365, AC000048, AF038458, AC005011, AL13245, AC007686, AL031681, AF011889, U91318, L34079, AC004812, AL049781, AC004067, AF000302, AL009179, AC006130, AF000065, AC006721, AL080317, AC007421, AC007207, AP0001210, AP000132, Z96074, AL021154, AL020997, AC005914, Z86090, AP000555, AL008382, AL023798, AC006251, Z7443213, AC002553, AL122020, AC004893, AC004682, AC005531, U91323, AB003151, U91327, AL002767, AF001550, AC005013, AL109956, AC004876, AC002418, AL078638, AL004420, AC005705, Z95114, AP000513, AC005527, AC004156, AF023456, AL031005, AC002369, AL110502, AC006162, AC007051, AF195658, AC004386, AC005099, AC003307, AC005632, AC003982, AL096791, AB023049, AC007919, AC002546, AC005593, Z69374, AF000557, AL121595, AC004783, AC003086, AF109076, AL031666, AL031177, AC004051, AC007216, AC006538, AC005089, and AC005358.
HLTCU66	2807	417344	1-404	15-418	AA845560.
HLTCM12	2808	888630	1-346	15-360	
HLTCQ51	2809	725845	1-660	15-674	
HLTCU58	2810	839556	1-576	15-590	
HLTC175	2811	766511	1-337	15-351	W32922, and AL814997.
HLTCU58	2812	625309	1-352	15-366	AW451945, AW926743, AA361764, A1082182, A1653128, A1873281, AA608839, A1610135, AW367467, and AW330308.
HLTCV43	2813	715525	1-355	15-369	
HLTCV37	2814	535289	1-185	15-199	
HLTCV63	2815	574712	1-189	15-203	
HLTCZ25	2816	574704	1-110	15-124	
HLTCZ37	2817	574705	1-413	15-427	AW134673.
HLTDG32	2818	574699	1-274	15-288	
HLTDG90	2819	574698	1-353	15-367	

HLTDD44	2820	522698	1 - 146	15 - 160	AA362014, and AF053630.
HLTDD62	2821	571328	1 - 263	15 - 277	AL034343.
HLTDE78	2822	856603	1 - 293	15 - 307	
HLTDE54	2823	574714	1 - 302	15 - 316	AL096816.
HLTDK64	2824	772378	1 - 325	15 - 339	AA884484, and AC007068.
HLTDL71	2825	508932	1 - 242	15 - 256	AA361503, and Z90050.
HLTDL14	2826	973100	1 - 296	15 - 310	
HLTDY57	2827	934619	1 - 535	15 - 549	
HLTEA13	2828	971722	1 - 669	15 - 683	AF118078.
HLTEB40	2829	711453	1 - 221	15 - 235	AL094944, AA326452, AA135988, AA857812, AL799421, AA878407, N70449, AA831801, AL798041, AA714073, AA320105, AL19337, AL161090, AA302978, N23919, H93152, AA371410, CL4330, AA676829, AL021950, N75708, AW089550, AA832016, DS1877, H67064, AA279385, AL114557, AA017690, AA326904, AW068305, AA719111, AA133811, CL6358, AL194713, HA3183, AA296604, AL270120, AW019964, AL866736, AL098508, AA029704, AW381198, AW381196, H79586, AA586433, H71738, AL054244, AL671077, AL431513, AA021139, AA381762, AA828867, R83068, AL609972, AL040430, AL580707, AW079809, AL583344, AL908525, AA828047, AL865776, AA558404, AA553570, AA338623, AL791718, AA862029, AA610255, AL192463, AW163763, AA336440, AA367788, AW089783, AA569397, AL041375, AA077776, AL797998, AA102737, AA324088, AL283938, AL185394, AL1819391, AW390309, AW247389, AA854460, AL279417, AW265279, AA728861, AL538818, AA745543, AL889579, AL120976, AA385775, T60699, AA326330, AW265276, AA553900, AA563319, AA28778, AL152253, AL423018, AA834799, AL679413, AA487569, AL349130, AA608520, AA493789, AL445373, R67701, AL189705, T93109, AA937809, AA136477, AW002831, AL730488, AW008184, AA525331, AA502098, AL609574, AW340937, AL847413, AL7300749, AL745628, AA365980, AA658934, AA578474, AA805573, AA384911, AL696550, H91704, AL310670, AL074351, R03854, AL927393, AA593471, AA493447, AL118925, AL750125, U85195, AE000638, AF047825, AC005086, AP000350, AF038458, L34294, AL023807, AC002400, AC006011, AC005971, AC005484, AC006511, AL022721, AL031427, AC009247, Z98047, AC006344, AC004883, Z83845, AC007384, AP000704, Z97181, AC004707, AL022330, AC006449, AC004882, AL049843, AC002425, AC004905, AC018633, Z73359, AC006996, AC005215, AL121653, AL034420, AC004263, Z93930, AL133382, AP000008, AL1109592, AC004966, AP000504, AL031589, AL139054, AL049548, AC004881, D87675, AL100952, Z82206, AC007774, AL031230, AC005529, AF111168, AL049694, AL035072, AC006160, AC005081, AL040845, AC005630, AC004797, AL050350, AC005015, Y15994, AL008635, AC005081, Z98051, Z82976, AC004884, AL035460, AC007055, AC005602, L47234, AL1096703, AC005306, AC006132, AC007637, AL049776, AP000030, AC008928, AC005924, AL121603, AF129756, AL133246, AC007160, AC002316, AC005476, AL1109827, AC000075, AC004471,



HLTEF24	2830	871203	1 - 135	15 - 149	AB023049, AC004880, AF111169, AL031666, AC002073, AC003688, AL121652, AP000212, AP000134, AC007878, AP000251, AC006130, AC005519, AC004975, AC005071, AP000553, AC005664, AL132777, AF106656, AC003030, AC005690, AC007308, AC005759, AC004382, AC002543, AL034423, AP001138, Z94161, AF207550, AL031662, AC005345, AL022476, AL031311, AL022318, AC005274, AC002430, AC002128, AC002470, AC005777, AF024534, AC005221, AC005412, AC004025, AC000052, AC005037, AC005599, AC005261, AC007395, AC004913, AC005057, AC007880, AC005514, AC005291, AC004821, AC005914, AP001051, Z98036, AF030453, AC004526, AC007051, AC004812, AC031985, AL022313, AL132712, AC005372, AL023575, AC005091, AC005837, AL031678, AC002477, AF196779, AL133245, AC004753, Z98747, AL024498, AL049793, AC005696, AC006538, D28126, AP000065, AC001846, AC0016025, AC002375, AC004900, AC004217, AC004819, AL049781, AC007656, L78833, AL031228, AC005088, AC016027, AL033525, AL021391, AC004605, AC004019, AP000114, AL117693, Z93783, AF067844, AL031295, Z83844, AL031286, AC000379, AL049745, AC007934, AD000091, AC016830, AC005067, AL031283, AC005730, Z98884, AC006547, AC006480, AC002369, AL022302, AC007030, Z83856, AC006120, AC005695, AC005180, AL031685, AC006473, AC004000, AL031657, AF134726, AC005874, AF134471, AC000025, AP000512, AC005011, AP000432, AC005624, AC003966, L82828, AC005796, AL096701, AC004895, U07562, AC006241, AC004130, AL049779, Z69890, AL034429, AL050308, AF045555, AD000684, AC005606, AL135744, AC006367, AP000141, and AC007684.
HLTE47	2831	720474	1 - 588	15 - 602	AA826368, and L78833.
HLTE53	2832	723405	1 - 306	15 - 320	
HLTEK94	2833	795033	1 - 348	15 - 362	R63716, AA160481, AL091227, H40386, H48636, AA199616, R97634, AA226153, AA503119, TT0560, AL266133, N67592, T92445, A1923480, AA701121, AA665021, H58178, AA564859, AL049707, AA569187, AB923140, AL040500, AA084337, AW157326, AL281754, AA586441, AA713534, N58586, AA831388, T40617, AW340821, AA650434, AA713762, AA713933, AL400213, AC005314, AC005971, AC006051, Z86090, AC006965, AC006241, AC002115, AL031447, AC004990, AC007327, AP000297, D49685, Z95152, AC005940, AC004474, AL023579, Z69921, L48473, Z98050, AL031714, AB029900, AL034401, Z49154, Z82184, AC000094, AC003968, AC000081, AL109854, AL023879, AL023694, Z83819, AC004041, AC005600, AC005250, AF015416, AC003099, AC012599, Z99297, AC005006, D87009, AC004748, AL034402, AC006254, AP000884, AC003998, AC005844, AC005969, AL022574, AC006318, AL035413, AC005245, AC007091, AC002460, AC004106, Z99716, AC007016, AC006285, AC006211, AC016025, AP000044, AP001112, Z60589, AD001502, AL021391, AL050031, AC004647, AC004072, AC003002, AL049552, AL109939, AC004638, AC007243,

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HLTEL11	2834	967529	1 - 319	15 - 333	AA3360683.
HLTEL25	2835	508607	1 - 231	15 - 245	AA664604, Y77882, AL271985, AW084100, AA857812, AL421950, AC002511, AC002997, AL022316, AC003037, AL049759, AL049776, AL049829, AC006538, Z98884, AF002223, AC006121, AC007193, AC007055, AC004878, AC005324, AC005512, AF196969, AC002544, AC004020, AC007182, AC005071, AC005971, AL133325, AC004148, U91326, AC007227, AC006449, AC005015, AC002316, AC005233, AL133371, D87675, AL080245, AL049872, AC005531, AC006064, Z68165, AC007066, Z83847, AC005913, AF030876, AC005399, AC003101, AC004491, AC006241, AC002310, AP000141, AC003029, AC007707, AC007216, AC005736, AC006111, AC009516, Z85986, AL096791, AF205588, AC005363, Z86090, AL050338, AL022320, AC005529, AC005057, AC016027, AC006013, AC005041, AF001552, AC004918, AC007308, AL031281, AC016830, AP000689, AC007075, AC005211, U91321, AL117337, AL049780, AL031311, AC004832, AC005237, AL008718, AB003151, AC003684, AC007226, AF111167, AC002425, AC004217, AC004644, AC002553, AL023575, AL022311, AC007151, AC005291, AC007546, AP000704, AC006464, AP000505, AC004821, AC007686, AC002470, AC004084, AL022238, AL031283, AC004859, AL109801, AL035422, AC005006, AF207500, AC002492, AC006071, AL033521, AC006023, AC004858, Z99716, AC005300, AF129756, AL035587, AL135744, AL034402, AL080243, Z98752, Y14768, AL139054, AC005667, AP000557, AC000159, AC005261, AP000113, AC007676, AL096761, AC004675, AC005562, AF165926, L78833, Z97053, U07563, AP000512, AC005412, AC007041, AC004686, AC002301, AP000130, AC004883, AC007993, D28126, AL033392, AC004531, AC003663, AL008582, AC005874, AF134471, Z83838, AC004209, AC005102, AP000208, AC005740, AC004895, AF088219, AL021546, AC004587, Z97054, AL121825, AC004887, AL049569, AC005004, AC004656, AC004967, AC005940, AC002039, Z84466, AC002477, AL031005, AP005566, AC002059, Z95114, AL021920, AL021578, AC005696, AC004150, AC006014, AL121658, D86992, AC006141, and AP000045.
HLTEOR8	2837	955228	1 - 321	15 - 335	AA121888, Z45382, AL273004, AA018678, and AA814210.
HLTES50	2838	958906	1 - 299	15 - 313	AC006323.
HLTES59	2839	739412	1 - 260	15 - 274	
HLTEX10	2840	968060	1 - 289	15 - 303	
HLTEX38	2841	573353	1 - 287	15 - 301	
HLTEZ24	2842	572779	1 - 456	15 - 470	AA361279.
HLTEZ33	2843	574654	1 - 344	15 - 358	
HLTFA05	2844	932221	1 - 539	15 - 553	

HLTFA34	2845	703403	1 - 202	15 - 216	AI431786	AI431786
HLTF04	2846	927449	1 - 1580	15 - 1594	AA813267, AW341552, AA878516, AA612649, AP935832, H17239, AA213623, AA720884, AB213368, Z447536, N749553, T75192, and K73793	
HLTF55	2847	669071	1 - 424	15 - 438	AA705418, AA682828, NG41118, AB940034, AA987277, AA340035, AA484366, AP983809, RG0108, T90092, AA918258, AW337710, AA643794, AI348199, H02927, TG3790, AC005538, AP000512, AC002394, AC007151, AL021707, AF207550, AP000295, AL008718, Z85987, AC008044, AL035458, AP000044, AP00112, AB023051, AC004448, AC002563, AL133485, AC007216, AC005071, AC007226, AC005291, AC004967, AC007425, AC005529, AL022476, AC007845, U08988, AC003666, AC007057, AL031681, AL022721, AL035090, AC006544, AC004799, AC004216, AL031390, AC008008, AC005163, AL109984, AC005377, AC022517, AC002997, AL121825, AL132777, AC005921, and AC004228	
HLTG25	2848	677696	1 - 296	15 - 310	AC005037	
HLTG61	2849	741529	1 - 510	15 - 524		
HLTG60	2850	973438	1 - 456	15 - 470		
HLTF51	2851	725140	1 - 421	15 - 435	AC004757, AC005962, AC004821, AL031985, AC004491, AL133500, AC004149, AC004895, AC007637, AC004671, AC005768, AL021546, AC004131, AC003108, AC016027, AC016830, and AP001054	
HLTG83	2852	744700	1 - 415	15 - 429	H90456, AA284708, AA805701, AL380487, AA203607, AL810648, AL829784, AL765051, AL048479, AL284543, AL254770, AL251944, AL251034, AL251203, AL022311, AL034553, AL109628, AB003151, AL109758, AC005837, AC004955, AC005844, AP00689, AC005689, AC004531, AC003010, AC003808, AL020997, AC005531, AL008730, AC007263, AP000116, Z93020, AF001551, AL118516, AC003108, AP000049, AC007226, AP000311, AC006115, AC007738, AC006251, AL049743, AC007934, AC002398, U93739, AC002301, AP000152, AC006449, AL109627, AC002091, AC002395, AC004234, U91321, AL246061, AA324919, AL801563, AL054090, AA838192, AL539822, AA419225, N27874, AL048479, AL284543, AL254770, AL251944, AL251034, AL251203, AL022311, AL034553, AA557911, AL673038, AL292275, Z97630, AC007688, AC007283, AL022311, AL034553, AL109628, AB003151, AL109758, AC005837, AC004955, AC005844, AP00689, AC005689, AC004531, AC003010, AC003808, AL020997, AC005531, AL008730, AC007263, AP000116, Z93020, AF001551, AL118516, AC003108, AP000049, AC007226, AP000311, AC006115, AC007738, AC006251, AL049743, AC007934, AC002398, U93739, AC002301, AP000152, AC006449, AL109627, AC002091, AC002395, AC004234, U91321	
HLTG84	2853	716323	1 - 440	15 - 454	AI126802, and AI367405	
HLTV54	2854	729247	1 - 393	15 - 407	AW205342, AA394225, AA398138, AL189026, AA283901, AL088021, AW196580, and AA504369	
HLTV64	2855	665647	1 - 399	15 - 413	AA992324	
HLTV67	2856	747584	1 - 417	15 - 431		
HLTV26	2857	681233	1 - 327	15 - 341		
HLTV75	2858	767060	1 - 338	15 - 352		
HLTHC34	2859	702078	1 - 411	15 - 425	AC004921	
HLTHH89	2860	974112	1 - 439	15 - 453	AC008062	
HLTH11	2861	966435	1 - 650	15 - 664		

HLTHJ35	2862	707245	15 - 543	AC007421, AC005014, AL021397, AL139054, U62631, AC007055, AC004834, AL080243, U75629, AC007363, AC005914, AL121058, AC004522, AC005152, AC007637, Z82215, AL049795, Z85986, AC005696, AL031848, AC005952, AC001231, Z85994, AC005274, AF068862, Z68870, AC007537, AC004612, AC007546, AC003007, AL049872, AC005002, AC004558, AL096791, AL022336, Y18000, AC005971, AC0068213, AL023381, AD001527, AC006509, AC004967, AL050341, AL031686, AF207550, AC005295, Z82245, and AL035683.
HLTHJ68	2863	719927	15 - 282	H48673, AA830495, and AA769512.
HLTHO15	2864	969356	15 - 241	T55452, T55533, T64583, T86962, R17130, R43223, R43223, R69530, R88169, W16432, AA01405, AA010287, AA010286, AA039982, AA040629, AA262779, AA262859, AA429846, AA4280051, AA470454, AA333802, AA583001, AA602082, AA602149, AA568998, AA577257, AA738040, AA769367, AA814611, AA815126, AA826473, AA827081, AA878242, AA928604, AA932452, AA976602, F18808, AA654132, AA417049, AA417180, AA609614, AA724635, AA835419, AA838750, AA854117, AA854205, AA772546, AA868928, AA72706, AL002704, AL092675, AL092814, D19911, Z38531, Z42297, AA682392, AA699613, AL241962, AL249764, AL284418, AL368959, AL216755, AL399983, AH75899, AL566500, AL799914, AL125509, AL126523, AL128828, AL129902, AL143123, AL627758, AL168615, AL2007750, AL620397, AL690783, AL701961, AL873590, AL805591, AL935907, AL951767, AW007590, AW009555, AL985824, AV024442, and AV082810.
HLTHO31	2865	697550	15 - 251	AL049610.
HLTHO46	2866	923482	15 - 305	
HLTHS75	2867	965126	15 - 484	AW173354, AF049559, AF049553, and AW386843.
HLTHV83	2868	780482	15 - 838	AA307492.
HLTHJ72	2869	968986	15 - 507	
HLTAA21	2870	671074	15 - 717	AA042852, AA044402, AL671077, AL801505, AA356376, AL828669, AA837771, AL042735, H54252, AA565232, AW272599, H43183, F13867, AA445598, AA904211, H53284, AA313884, AA662614, AL280266, AL355246, AA569715, AA552724, AW019964, AL246386, AL249688, AA374797, AA630245, AA584493, F35684, AL915081, AA058312, AW265688, AW302081, AL870453, AA493947, AA493789, AA586433, AL039309, AA284247, AA584484, W81372, W02749, AL612810, AA584800, AL580707, AL198718, AL923052, R93919, AL567391, AA811954, AL038304, AA728938, AL253987, AL282629, AL802804, AW051819, AL041352, AL754567, AL569100, AW192599, AA515351, AA638934, AL754105, AL755214, F33037, T69571, AL060972, R86977, AA302982, AA558404, H55213, AL080307, AL061619, AA937809, AA678472, AA557790, AA665181, AA746911, AW403829, AL310464, Z98474, T62078, AW419389, AW303142, AW275432, AL587467, AL079734, AL912401, AA376520, AL190648, AA349937, T95676, AA659048, AL034420, AC004822, AC004760, AC005859, AL112441, AC005534, AC004651, AL078603, AL1049570, AC005206, Z69922, AC007546, AC004167, AC005667,

HLVAA41	2871	909874	1 - 819	15 - 833	AL117344, Z49769, AC003690, AC002302, AC005291, AL021546, AL024498, AC002504, AC002128, AC007676, AC005256, AL021852, AL031315, L34594, AL034379, AC004949, U02052, AC007880, U02047, AC007566, AP000501, U95739, AF108459, AL008709, AC007993, AC002511, AC007312, AF130343, AC004033, AL031663, AC006011, AC002373, AC009044, AF196971, AC005657, AF053356, AC002550, AC006921, AC000661, AC002045, AC000649, AL110122, AP000193, AC008810, AL035072, AC008044, AP000050, AL109613, Z95114, AC004466, AL109983, AC008079, AC008079, AL035410, U17576, AP000117, AC007136, AP000313, AF207550, AC004858, AC006132, X55448, U52112, Z99716, AC002390, AL021306, Z49235, Z82214, AL035415, AC005500, AC005277, AC003035, AC000602, AC002429, AC006449, AL049631, AL008707, AC004000, Z82190, AC002404, AL035410, AL035423, AL021920, AB018295, AL031311, AC002039, AC005902, M29929, AL020997, AC006125, AC003098, AC011331, AP001052, AF031078, AP000049, AP000116, AC000039, AC005193, AC005411, AC016831, AC004843, AL021937, AC004859, AL049712, AC005539, AC004743, AL049829, Z98742, AF030876, AC004999, AL022163, AC006057, AC005736, AC005740, AL031121, AC005746, AC005823, AL049557, AF066501, AL031293, AP000311, AC003967, AC000159, AL049834, AC004584, Z84813, AC004797, AC004073, AF109907, L44140, AP001063, AC006088, AL031732, AF030453, AC004099, AL109656, Z82248, Z94865, AC005088, AF107259, AP000239, AC005876, AP000952, AL109839, AC006271, AC003109, M87918, AD000684, AL050318, AC007225, U10087, AC005081, AC005516, AC005726, AC007376, AC008062, AC002107, AC006398, AL049795, AC006050, AC004475, AL031433, U96629, AC001848, AC004074, AF017104, Z86090, AL078638, AC009263, AC007731, AF075098, L31565, AL035495, AC003043, AC002496, AC005480, AL109963, AB003151, AP001053, AC002090, AL117352, AC011718, AL031594, AC008641, AC002476, AC004223, AL031431, AF155238, AL022316, AF095901, U91318, AC005747, AC002106, AL009183, AL109801, AL050331, Z84469, AC005531, Y14768, AC006126, AC004922, AC004695, AC004921, Z98052, AC002301, AC004817, AC005037, Z84466, Z82217, AL118503, AP000552, AC004224, AC005034, AC002369, AL135879, AL121790, AL050337, AC000115, L47234, AC004605, AC007773, AL133396, AC005335, and AC006515.
HLVAA41	2871	909874	1 - 819	15 - 833	AL074002, AW014573, AA326846, AB084046, AW070889, H447509, H447525, AL241812, AL624543, W45039, AL127179, AL564245, AA903221, AL170448, AL923509, AL560536, AL05163, AL561701, AL039776, AL886440, AL476086, AL285732, AW085799, AW189802, AL45787, EL12888, AL122049, AL133607, AL133053, AL133049, AL133015, and AL133008, R02835.
HLVAA44	2872	964841	1 - 362	15 - 376	U81830, and AC007450.
HLVAB02	2873	920407	1 - 333	15 - 347	AL243319, AL288451, AL521658, AW301143, AW444808, AL147213, AL056464, AL827213, AL925715, AL085752, AB913241, AA693938, AL869312, AL122654, AA937953, AL927208,
HLVAB38	2874	861161	1 - 444	15 - 458	
HLVAC38	2875	668989	1 - 259	15 - 273	

				AL1904394, AL1423336, AW451297, AL123244, AA736786, AL742610, AA522674, AA603325, AL425075, AL094469, N04395, AL742621, AL445367, AL420510, AL866676, AL963292, AA627433, AL356146, AA968590, AL872656, AL222629, AW167511, R09552, AL194056, AL803734, and Z38818.
HLYA010	2876	964845	1 - 583	15 - 597
HLYA050	2877	576449	1 - 459	15 - 473
HLYA020	2878	668872	1 - 715	15 - 729
HLYA028	2879	975007	1 - 633	15 - 647
				AA195902, D81936, AW373648, H72932, AW373647, AW393531, AW373665, AA278187, and AA284401.
				Z09396, AW392670, AL134920, AW372827, U46341, AW363220, AW384394, AL119355, AL119319, AL119457, AL119497, AL119483, AL119324, AL119443, AL119484, AL119363, AL119391, U46349, AL119341, AL119335, AL043029, U46351, AL042984, AL119522, AL142137, AL134531, AL142131, AL042975, U46350, U46347, AL119444, AL042973, AL119418, AL037205, U46346, AL038520, AL037526, AL119464, AL036190, AL036268, AL036767, AL037077, AL036774, AL037021, AL037027, AR060234, AR066494, A81671, AB026436, and AR054110.
HLYAG42	2880	691747	1 - 419	15 - 433
HLYAH26	2881	855981	1 - 569	15 - 583
				AW370369, AA825207, AL179831, AL224367, AW292092, AL832007, AL250843, AA825205, AL434322, AL250350, AW003249, AF110467, AF110466, AF137027, AF110465, AB025274, and AB018563.
HLYAK12	2882	970807	1 - 283	15 - 297
HLYAL83	2883	780075	1 - 469	15 - 483
				AL1990837, AA630888, AA907192, AL283022, AA318347, AL891038, AL821307, AA349881, AL951933, AW129165, AA487512, AL298557, AA776684, AA745570, AL1749306, AA614647, AA492266, H96580, AA827080, W80853, AL1135674, AL1889426, AA320966, AL285709, AL023584, U92032, Z84489, Z77249, AC004821, AC002477, AC004520, Z93023, AL023807, AL109963, AC006001, AL035071, AL021807, AC005057, AL109628, AL031577, AL096701, AC004841, AL133355, AL117354, AC005901, AC006084, AC004999, AC004985, AL109984, AL024508, AC004472, AL133353, AL132641, AC005225, AL031666, AC004129, U62293, AL109758, AL021578, AL033525, AL050318, AL133448, AL022320, AL006715, AL033527, AP000694, U89337, AC004531, AC004067, AC004820, AC006532, AL098791, AL049881, U85195, AL035450, AC005365, AL109952, U80017, AB000658, AB014007, AL133382, D26141, AC004500, AC004527, AC005320, AP000510, AL022329, AC006026, AC004836, AL080317, AC005011, AL1132987, AC005684, AF195658, L44140, AC007792, AL008718, Z28941, AF017104, AL117337, AL049745, AC004491, AC006241, AL133163, AF006501, AL034345, AL031587, AB023048, AL133245, AL109623, AC000379, AC004035, AC005362, AC007666, AC003026, AC004587, AC004217, AC004263, AC004196, AF0205588, AC005393, AL022162, AL031277, AL034371, AC009330, AP000113, AP000045, AC005722, AC002365, AL031602, Z84484, AC006050, AC005200, AC012599, U95742, AC005089,

				AC007114, AL049709, AC004891, AL049712, AC006531, AL049830, AL049759, AC006139, U73167, U90094, AC007860, AC005385, AC004601, AL022721, AC006064, U91318, AC005874, AF134471, U63721, AF165124, AC007868, AC005220, AC006530, AC008040, AC002400, AL049570, Y14768, AR036572, Z84467, U91328, AP000131, AP000209, AC005231, AF111168, X14448, AC004938, AC007124, AC002126, AL050324, AJ246003, AC004905, AC000086, AC005764, AL109956, AC006004, AC005839, AC004817, AC005803, AC002425, AL049849, AC005971, AC005856, AL049780, AC007216, AC004647, AL09627, AC007880, AF129756, AF111167, AL049553, AL078584, AC007372, AL049837, AC005940, AL022163, AC004858, U52111, AC002565, AL078584, AC004462, AL112758, L77570, AC004686, AP005555, AC007327, AL021917, AC003037, AC002369, AC007308, AC004815, AL117344, AL023284, AC005697, AJ003147, AC005670, AC005625, U96629, AC004914, AC004975, AL035249, AL031657, AL034417, AC003104, AC007429, AC007688, AC005563, U91323, and AC005082.
HLYA031	2884	698104	1 - 463	15 - 477
HLYA067	2885	924042	1 - 699	15 - 713
HLYAP10	2886	964748	1 - 418	15 - 432
HLYAP26	2887	681892	1 - 462	15 - 476
HLYAQ80	2888	868396	1 - 615	15 - 629
HLYA056	2889	935552	1 - 517	15 - 531
HLYA029	2890	576596	1 - 502	15 - 516
HLYA080	2891	689969	1 - 691	15 - 705
HLYA035	2892	780987	1 - 373	15 - 387
HLYA061	2893	707248	1 - 332	15 - 346
HLYA085	2894	575868	1 - 379	15 - 393
HLYA062	2895	825513	1 - 356	15 - 370
HLYA065	2896	575863	1 - 309	15 - 323
HLYA0A1	2897	916635	1 - 464	15 - 478
HLYBA42	2898	871648	1 - 753	15 - 767
HLYBA72	2899	717644	1 - 462	15 - 476
HLYBA85	2900	575878	1 - 462	15 - 476

HL YBA96	2901	575834	1 - 470	15 - 484	
HL YBB50	2902	708624	1 - 486	15 - 500	
HL YBB65	2903	866883	1 - 645	15 - 659	<p>AI820992, AW105729, AW744993, AI000398, AA635433, AA687542, AI049630, AA015948, AI572680, AI358313, AA862029, AI283938, AA455699, H86399, AA515924, AI302350, H27788, AI302978, AA526658, H47736, AA526659, AI282479, AI061313, AA364082, AI049504, AW079667, AI591134, AA244181, AI678476, AW715531, AA728861, AI254779, AI590404, AI123214, AW02049, NS5076, AI805699, AA862312, F17537, AA573000, AW51191, F23221, AI297789, AA846014, A2716884, AW265468, AA084320, AI143653, AW129188, AI049680, AA018258, AA695528, AI047349, R93233, AI146336, F29968, AA300049, AI002863, AA636077, AI268818, AI138262, AT999421, AI032411, H91062, AI679759, AA807704, H91704, AA278496, AW192930, P08866, AI520925, N78600, F36200, AA832124, AW192518, AA604149, AA668421, AA768179, AI121039, AI150934, AI147521, H91358, AB10343, AA342238, AI610994, AI174703, F31811, AA130696, AA342626, AW243945, AW157128, H91672, AW410844, AI040051, AA598740, AW148821, H59856, AA769481, AI065043, AI254267, AA010265, AC005632, AF049895, AF001549, AC005031, AF000555, AF060929, AC006538, AF111168, AE000658, AL031295, AF088219, U80017, AC000353, AC004083, AC001643, AF111168, AE000658, AL031295, AF088219, U80017, AC000353, AC004083, AC001643, AL049835, AC005288, L47229, AC005971, AC004033, AC005500, AL096701, AC001643, U02057, AL109956, AC005666, L47227, AC011456, AC005682, AC005913, AL109798, Z98051, AC004663, AL022316, AP000501, AL049757, AC005730, AC002991, L47222, AC004151, AP000469, AL080317, AC004897, AC005409, AF064861, AC005231, AC005157, AC004882, AC005856, AC005529, AC006162, AL079295, AL080243, AC008018, AC004216, AL133289, AC006536, AC005828, AC003688, AL035587, AC006360, U85195, AL031347, AP000503, AR036572, U91328, AL035420, AC009516, AC007993, AC004985, Z82172, AC005722, AC005081, AC004966, X89398, AC005696, AC003665, AL049776, AC005332, AC007055, AC004253, AF045555, AC004000, AL021578, Z74739, AC000159, AC004056, Z96074, AP000010, AC005214, AL035445, AL139054, Z97053, Z98941, AC005531, AP000030, AL023799, AL031659, AF053356, AL022721, AL080242, AC005003, AC005972, AL121603, AC005209, AC005215, AC004851, AP000152, AC005373, AL031685, AL023801, AC005924, AC004738, AL109627, AF000537, AL021153, AC005726, AC004132, AP000552, AC003363, M63796, AC006271, AL035461, AP000065, AC007766, AC004132, AP000153, AC003098, AF134726, E15652, AC005527, AL050821, AL121754, AF112441, AP000153, AC001588, Z82206, AC006385, L78810, AC007899, AC007746, AC003007, AP000011, AC001551, AC005484, E15648, AL132712, AL049843, AF038458, AP000556, AC008055, AC007919, AL121825, AL031007, AC007742, AB023048, AL022476, AC005368, AC005213, AF165926, AC006014, AC003043, AF019369, AC002544, AF109907, AC007845, AC005343, AB020866, AC004230, AC007637, AC005952, AC005057, AL049766, AC006064, AL049694, AL109853, AC006333, AC004686, AC005488, AF111169, Z93017, AL050140, AC005859,</p>



						AC007172, Z95327, AC002477, U07561, AL031117, AL022330, Z93023, Z97056, AF001550, AC007051, AL033521, AL021808, AC007395, AC005701, AC006449, AC005089, AC008101, AC007731, AC006130, AC005071, AL022323, AL021707, M37549, AC005261, AL033392, AC004067, AL008720, AC005837, AC016025, AL035249, A84742, AL049743, AC005412, AL022723, AP000251, AL021453, E15633, AC005695, Z93241, X54156, U94788, AC002470, AC007363, AC005755, AP000512, AC002418, A011930, AC007151, AB011523, AF126403, AL121658, AC000039, AL050350, AC007421, AC003689, AC004150, Z98744, AC005377, and Z84468.
HLYBD46	2904	575865	1 - 358	15 - 372		AW089101, AA303007, AL290405, T49633, AA864603, AL382825, AW179306, AW179305, AW380254, AL023111, F17774, AA478355, AL688899, AA679956, AT752120, AL649968, AA680243, AA329995, AA829490, AA478297, AL119649, AC004894, AC004000, L78810, AL009181, AC005291, U51244, AC006160, AL031311, AL049759, AC009542, AC004492, AC004531, AL034379, AP000228, AL021453, AP000140, AP000088, AC004063, AF147304, AP000665, AC005800, AC004087, Z82206, AC005881, AC005740, AC002287, Z84474, Z83846, AB014078, AP000514, Z97989, AC005235, U37355, U37452, L07900, U73638, AC005783, AC006077, AC005377, AC004999, Z83826, AL031650, AC004838, AC008033, AL021978, AC007664, X95386, AF063396, AF129077, AC006388, AF038458, AL031282, AL031256, AC004167, AC003957, AL049692, AL020997, AL022316, AC007263, AC004882, AC009330, U82828, AC005274, AC007308, AF053356, AC005529, AB028964, AC004644, AC006473, AL080241, AL049757, AC004813, AL049745, Z98941, AL023805, AL133241, AL031228, AC006111, AL009183, AL109984, AL008719, AL117338, AC004004, AL023233, AC005833, AC006089, AC005041, AJ007973, AC007192, AP000223, AP001051, AL031905, AJ006997, AC005519, AC003071, AC004687, AC004491, AC006121, AL008629, Z97352, AC000087, AC005206, AC005667, AC008122, AC004983, AL024498, AC007226, AC0055081, and U95090.
HLYBE47	2905	706517	1 - 417	15 - 431		AA873012, and AA470597.
HLYBE75	2906	828077	1 - 527	15 - 541		AA393103.
HLYBG18	2907	575872	1 - 465	15 - 479		
HLYBH08	2908	856445	1 - 467	15 - 481		AL076697, and AL076255.
HLYBH56	2909	733472	1 - 471	15 - 485		
HLYBH91	2910	576793	1 - 464	15 - 478		H85616, H86301, H86264, AW440976, AW236342, AB12149, AL1358501, AA598997, AA593060, AW072587, AW419262, AL291124, AL291268, AL537030, N27353, AA084070, AW148792, AW340922, AL824562, AA443390, AW338869, AL648558, AL003734, AA347977, AA632868, AW499094, AA059235, AL138455, AA664535, AA332749, AW193609, AL133262, AL282832, AW380074, H40410, AL025570, AA984263, H86305, AA136004, AB84487, T47739, AL676218, AA347930, H42075, AA243959, AL653886, AL339440, AA837740, AL133862, AA610786, AL192631, AL628288, R47245, AA846955, AA346454, H02651, H21449, AL135405, AA437402,

					AW238768, AW085740, AL137954, AL610607, AL144330, AL572560, H64560, AA325699, AL469624, AL041733, Z94865, AC006350, AP001549, AP000508, AC004947, AL033521, Z92540, D84394, AL109984, AC005968, AC004210, AC004982, AC004098, AC007565, AL121653, AL031009, AC007344, AC005746, AC004637, AC000092, AC005317, AL023575, AC006121, AF111169, AP001049, AC005031, AL109798, AP001050, U80017, U91328, Z70281, AL023882, AC004205, AC002364, AC006012, X66401, AP000460, AC006480, Z70288, AF108083, AC003014, AB020867, AC007390, AC002994, AC005486, AC004035, AC005362, AC002350, AC008064, AC004702, AL021938, AF003627, AP001142, AP000090, AL031848, AR036572, AC006128, AL049845, AC006965, AL117352, Z82198, AP000531, AC005379, U89335, U89336, AC002045, AC005081, AL109656, AL031258, AP000358, AC004259, AC004600, AL031664, AC006195, AL035659, AP000343, AC004743, AC007324, AC005663, AC005288, AP001046, AC008079, AC009336, AC008124, AL049869, AC002288, AC005803, AC002082, AC005003, AL035106, AL022316, AC007308, AC006211, AC005755, Z92541, AB009666, Z98257, AC003965, AC004496, AP007544, AP000230, AP000144, Z86061, AL031177, AL109967, AC007214, AC006241, AC006111, AC007458, U47924, AL049562, AF27509, AL031662, AC004851, Z93021, AC006251, AL080283, AF27510, AC004999, AL031296, Z82205, AC005670, AP000556, AP000552, AL110503, AP000517, AC004253, AC004775, AP003626, AL022397, AC007026, AC005208, AC004562, AC004595, AC004963, AC005291, AP000568, U02048, AC006397, AC003695, AC005180, AC002091, AP000152, AC005231, AB023054, Z84490, AC005175, AP000252, AL035494, AF045555, AL022100, AP000212, AL035458, Z97054, AC007666, AL049873, AL031584, AC005324, AC005874, AF134471, AL096711, AC006030, AC004797, AC003944, AL008728, AL117351, AL022313, AC005837, AC007687, AL049696, AC005229, AP001068, AP000080, AC005694, U49740, Z69890, AC005530, AC004400, AC005565, AC006275, Z81308, AL031602, AC006456, AL021453, AL023799, AL049713, AC004913, AC004987, AL031666, AL021392, AC000003, AC007228, AC004972, AL031650, AL117344, AC006354, AL049712, AC007262, AC007535, AC016027, AC005815, AC007537, AC007182, AC016830, AC005873, AC004605, Z98750, and U51244.
HLVB44	2911	728035	1 - 253	15 - 267	
HLVB10	2912	964752	1 - 464	15 - 478	
HLVB42	2913	713845	1 - 559	15 - 573	
HLVB92	2914	856419	1 - 1064	15 - 1078	AA830761.
HLVBM35	2915	625408	1 - 461	15 - 475	W87342, W87343, and AI797550.
HLVBM75	2916	757084	1 - 387	15 - 401	N72584, F31792, AI950359, and Z97055.
HLVBN94	2917	670500	1 - 380	15 - 394	AC007204.
HLVB053	2918	721377	1 - 416	15 - 430	
HLVBR03	2919	924515	1 - 428	15 - 442	AC004056, AC007214, and AC007458.
					AC004227.

HLYBR41	2920	712389	1 - 631	15 - 645	AI769511, AI692550, AW384109, AW384104, AW384108, AW384074, AW384071, AW384068, AW384073, AW384075, Z42260, AA676852, AI681360, and AI022067.
HLYBR83	2921	750318	1 - 481	15 - 495	D78885.
HLYBS12	2922	970795	1 - 651	15 - 665	W87923.
HLYBT19	2923	668744	1 - 432	15 - 446	AI799856, and AA447275.
HLYBT64	2924	527687	1 - 433	15 - 447	
HLYBT69	2925	678175	1 - 452	15 - 466	
HLYBT84	2926	575828	1 - 45	15 - 59	
HLYBU28	2927	914702	1 - 418	15 - 432	
HLYBU52	2928	727213	1 - 463	15 - 477	
HLYBV42	2929	713837	1 - 298	15 - 312	H66883, W03665, and AC007068.
HLYBW12	2930	970796	1 - 423	15 - 437	AI094626, AW204786, AI935606, AW246712, AA336176, H92959, AI433978, AI94509, AI039276, AI045163, AI653331, AI045620, AI039421, AI923046, AI289992, and AW082113.
HLYBW35	2931	812692	1 - 634	15 - 648	R98218, AA570441, AI636734, AA324059, AW245354, AI446259, AA324559, AA720582, AA326603, AI558928, AA663074, AFI62750, AA654482, T08834, AI029796, AI039930, AA593471, AA158549, H65679, N25304, AW078909, H94979, AW088557, AA457504, AA485343, AI049709, AI732720, AI734119, AW238712, AA364082, AI473995, AA484191, AA825827, AI064786, T08258, AW192373, AC002563, Z83826, U91323, AC004796, AC005726, AC005385, AC004832, AI031767, AC005057, AI035422, AI031279, AI021578, U78027, AI035420, AC004905, AP000355, AC003684, AFI96779, AC007899, AFI96972, AI021154, AC002551, AI049776, AC004821, AC005274, AC004953, AC007685, AC005484, AC007421, AI078581, AC005796, AC005562, Z93017, AC007050, U91318, AC007386, AC005940, AC003692, AI003147, AP000356, AP000555, AC006538, AC006441, Z85996, AF033356, AI049694, AI050350, L11910, AC003043, AC004491, AI008718, AC006530, AC008064, AC007055, AI035413, AC005529, AC005088, AC004983, AI049795, AI031774, AC010170, AC002425, AC005358, AC007011, AP006967, AC007388, AC05070, AC005096, AC002312, AC005900, AI050318, AI049709, AC002470, AI097998, AC031680, AC006271, AI050307, U91321, AP000359, AI031295, Z94056, AP000128, AP000206, AP000313, AP000501, AC007225, AI050341, AC004383, AP000104, AC008116, AI135744, AFI29756, AC005346, AP000050, AI021155, AI132987, AP000466, AC006427, AP000113, AP000045, AC005667, AP000117, Z99716, AC005399, AP000245, AP001053, AI009181, AC006023, AC0090689, AC005206, AC004526, AF020465, AI022165, U96629, AC006312, AI133163, AC009509, AC005531, AC005924, AC004477, AI049576, AC005180, AFI07885, AI132642, AC007216, Z85986, AC005520, AC005839, AP000700, AC005971, Z97054, AI049843, AC003663, AI031447, AC005921, AC002369, AC007676, AF030453, AC007114, AI133312, AC006014, AC007695, AF104455, AC004985, AI031985, AC002525, AC008044, AC006101, AC002375, AC006283, Z92844, AC006211, AFI07104, AC002091, AP000557, AC005225, AC007308.

AL023575, AL109758, AC003957, AC007537, AC007542, AL022336, AC005904, AC006531, AL133244, AC005738, Z95714, AC006126, AL034420, AC002128, AC004823, AL031282, AC007037, AC005488, AL006791, AP000704, AL139054, AC002996, AL022313, U81591, AC004686, AL121603, AC003982, AC005619, AL031390, AC020663, AC006111, AC003072, Z93023, Z83844, AC002039, AC011331, Z83838, AE000658, AC004882, AC005899, AC008079, U95739, AC004381, AL049569, AL035682, AC007151, AP000210, AP000132, AC002477, AP000694, AC002395, AC004531, AL031284, and AC004675.	HLVYBX77	2932	721086	1 - 335	15 - 349
	HLVYBX84	2933	754842	1 - 568	15 - 582
	HLVYBZ17	2934	577479	1 - 373	15 - 387
	HLVYBZ23	2935	856450	1 - 398	15 - 412
	HLVYBZ60	2936	682675	1 - 264	15 - 278
	HLVYBZ86	2937	856436	1 - 574	15 - 588
	HLVYCA76	2938	770107	1 - 384	15 - 398
	HLVYCA77	2939	677758	1 - 788	15 - 802
	HLVYCC39	2940	710843	1 - 564	15 - 578
AL003118, HL0019758, AB023050, AC007225, AF109097, AC009501, AC004211, AL010770, AP000512, Z84486, AC002310, AC005585, AC003029, AC004491, AC004832, AL012355, AL031848, AC06285, AL049780, AC006353, AC006312, AL049569, AC003524, AC004548, AC007314, AB001523, AF165926, AC006071, AC005081, AC002312, AC005846, AC004223, AC002126, AL121653, AC007686, AC006942, AC005911, AC002312, AC005846, AC004223, L47334, AL080242, AL035422, AC006930, Z97056, AC005046, AL009181, AC002300, L47334, AL080449, AC005527, AC008498, AL009172, AC006251, AL031427, AL031311, AC005907, AC005225, AC007690, AP000691, AC004234, AC004883, AC007546, AC005529, AC007555, AL133353, AC005157, AC005520, AC002369, AC002316, AC005015, AC007055, AP000299, AL133246, AL049697, AC004985, AL021391, AC007899, AC005261, AC005588, AC002115, AP000553, AC009516, AF053356, AC006271, AC005231, AC004801, AC004778, AC004013, AC006088, Z93241, AC004542, AL139054, AC005971, AC005775, AC002314, AL022326, AL049709, AL049839, AC007540, AL011930, AL049835, AC006077, AL13245, AC006211, AL133448, AC000404, AL050341, AC000025, AP000048, AL133165, AC005619, AC044228, and AL066766.	HLVYCC65	2941	932727	1 - 493	15 - 507
AA171788, AW118642, AB029006, ALP246003, and AL121658.	HLVYCF12	2942	908532	1 - 361	15 - 375
AL139999.	HLVYCF46	2943	718930	1 - 526	15 - 540
	HLVYCF70	2944	741417	1 - 399	15 - 413
	HLVYCH10	2945	964354	1 - 370	15 - 384

HLYGHI5	2946	964840	1 - 363	15 - 377	R02835.
HLVCM68	2947	658540	1 - 432	15 - 446	AF070718.
HLVCM88	2948	732392	1 - 380	15 - 394	
HLVGN75	2949	761510	1 - 356	15 - 370	
HLVCO31	2950	697787	1 - 312	15 - 326	AA230096, and AA530904.
					<p>           A1370523, N23255, AA074026, N27657, R66922, AW085624, AA579437, A1114828, AA382130, AA190418, H64735, AA488846, A4550460, A765684, T24020, A092694.            AA405463, A1375472, AA443663, AA577770, AA174138, A1241173, M77904, AA338281, AA465689, N21546, A1127067, A1916406, AW103010, AA584123, AA436155, AA436281, A1587537, A1812684, AA583390, A181345, AA906657, A1065029, AA715389, A1439045, A1278256, R70326, H75272, N51132, A4910215, A1052493, AA736485, AA461430, AA805014, AA205743, AL048023, T68597, N23819, AL031774, AL022171, AL133485, Z84484, AL022067, AC004021, AL049738, Z83855, AC005844, AL022312, AC004000, AC007676, Z93017, AC004583, M63420, AC005354, AC004264, AL035410, AC005088, AC005562, AC004231, Z84489, AL035413, AC000353, AL035420, AL137457, AC004861, AL021878, U73479, AC004560, AF107045, AC005387, AL031255, AP000068, AL031848, AC005544, AC007327, AC007842, AC006241, AC004223, AC004167, AL135744, U62293, U63721, AC005057, U46120, AC005253, Z83097, AL008635, AL009031, AC002326, AC004770, AC006017, AC004797, AP00502, AC005393, Z95329, AC005412, AP000501, AF196970, AC004382, AF141308, U93037, AC002116, AC007201, AC000086, X55448, AC006030, AC002369, AP000008, AC005049, AC006088, AP00704, AC005833, AC004585, AL031985, AL034419, AL034549, AL022316, AC002454, AC005988, AL022165, L11910, AC009263, L41440, Z99258, AP000350, AL118509, AP000510, Z84466, Z97054, AC004458, AL031681, AC004106, AP005364, L03307, AC004132, AC006084, AL110984, AC002477, Z98044, AC005225, U52112, AC005920, AL121652, AC005529, AP001053, AC006312, AD000813, AC004839, AC002420, AF045555, AC004876, AL031056, AC005081, Y10196, AC006043, AL035079, Z95116, AL133304, AL049745, Z49250, AF033356, and AL121655.         </p>
HLVCO66	2951	785990	1 - 295	15 - 309	AA918361, AL124209, AL820877, A733217, AL346354, H65493, and AL031666.
HLVCO68	2952	729293	1 - 485	15 - 499	AW299770, AC004645, and AC006111.
HLVCP66	2953	706435	1 - 651	15 - 665	AA251713, AF080576, AA381037, T49826, T49825, and AC007041.
HLVCO53	2954	728046	1 - 680	15 - 694	AL022098.
HLVCO68	2955	752887	1 - 355	15 - 369	<p>           AL288307, A1186282, AA523891, C75540, AL037127, A1193168, AW407585, AA112924, AA458534, AA515631, AL034365, AA911520, AA001471, Z99943, AL031681, AC002364, AC005952, AC005670, AL033538, AC016027, AC016830, AC004955, Z83840, AL031848, AC005803, and AL050327.         </p>
HLVCM47	2956	850147	1 - 824	15 - 838	AW276220, Y92688, and AA341978.
HLVCS15	2957	660006	1 - 371	15 - 385	
HLVCM49	2958	718840	1 - 294	15 - 308	

HL.YCW04	2950	615021	1- 336	15- 350	AA720682, AI824562, FI92538, AA654627, AH93615, AA503947, ALD04913, AW340844, AA650244, AA077817, AA228329, AI679782, AI886176, AA729264, AA551509, AA342958, AI051226, AI575755, AI959531, AW103769, AA610249, AA610491, AW088317, AI053816, AI205426, A4743956, AI282336, AA904218, AL004689, AW301818, AW669172, AI307426, AA584082, AA745410, AL048616, AA515938, AW361583, F29989, AW071063, AA581342, AI802526, AI577955, AI446318, AI138229, AI807372, AI565245, AW406755, AI653988, AI025252, AW339687, AI635572, F474692, AA228420, AL003172, AI922002, AI529897, AA340003, AW339687, AI635572, AW157608, AL138242, AI214510, AI281808, AW104748, AW080134, N25927, AA578154, AW157608, AL138242, AI214510, AI698978, AA46601, AA469624, AL138265, AA639250, AI282832, AI633479, AI858451, AW029038, AI828710, AA934771, AA482711, C75026, AA530258, AA538857, AI471534, AI683577, AW236342, AI005388, NG6026, AC004383, U62317, AF078904, AC004620, Z84721, AC003015, AC005206, AC005667, AC002375, Z15025, AI297556, AI109827, AL022328, AC004478, AC005778, AC004583, AC005099, AC006208, AC002395, Z99497, Z98747, AC001082, AC006057, AC006663, AC004890, AC004033, AL132826, AF037338, AL050341, AC007731, AC005500, AC004388, AC010722, AL008629, AC003035, AC010072, AC002310, AC004472, AC002073, AC005794, AL133448, AC009044, AF124730, AC004806, AC000118, AC000003, Z84480, AC004408, U70984, AF011889, LA4872, AL031655, AL035690, AP000039, AC000085, AC001584, AC009946, AF015720, AC002543, AL080241, AC003982, AL021326, AC002378, AL023879, AC005257, AP000432, AC005746, AC005037, Z98734, AF064861, Y14768, AF047825, AP000495, AI109627, AC005838, AL021878, AC002350, AC005245, AC007686, AC005005, AI2229041, Z98744, AC005356, AI109622, AC002312, AC005086, U91327, AC005121, AF069696, AC007792, AC008984, AC004964, AC004622, AB020869, AL132712, AC002584, AC000004, Z95624, AL117354, AC005815, AC004066, AC002483, AC000025, AC007786, AF196971, AF165176, AL121846, AL023694, Z97635, AC009510, AC005184, AC007376, AC004526, AP000656, AF002565, U93837, Z84572, AL049745, AC009069, AL034406, AC006965, AC005046, AF109907, AC002432, U07000, AC006241, AL031591, AC006207, AC007387, AC005751, AC004638, AC004149, AC007221, Z69705, Z86061, Z76735, AC004540, AL096805, AL023755, Z97876, AL022395, AL033381, AL031427, F4042090, AC000532, AC007357, AL022163, AC003050, AL080276, AC004972, AC005940, AL031680, AL133494, Z73965, AC000039, AC005913, AF064857, AC004986, AL049776, F0C04909, AP000561, AC004810, AC004596, AL031666, AC005071, AC004019, AC006213, AF064864, U75285, AC004592, AC006556, AL109967, AP000023, AC005194, AC005303, AL117340, AF128846, AF128847, AC004099, AF128848, AB026188, AL096769, AL078472, AL049873,
HL.YCW10	2960	656827	1- 366	15- 380	
HL.YCW20	2961	669541	1- 355	15- 369	
HL.YCW62	2962	856443	1- 1140	15- 1154	

HLVYCY30	2963	650859	1 - 364	15 - 378	AC005527, AF0002991, AP000358, AC002984, AF045448, AC005159, and AP000359.
HLVYC263	2964	744886	1 - 430	15 - 444	AT792627, AI254439, AI581223, AW086361, AI349662, AI053903, AI862231, AI223748,
HLVYDB85	2965	784253	1 - 343	15 - 357	AT192525, AW197508, AI348722, AI684349, AI053450, AI583532, AW182499, H65697, AI248494, W24698, AI140609, AI770092, AA767864, AA573242, AW264786, AA235693, AI214028, AI266177, H95865, H72049, AW079694, AI011930, AC005233, AC005972, AC002428, AI031733, AC002990, U95740, AC004662, AF196969, AC002378, AC010206, AP00356, AF117829, AP001252, AC005902, AP000212, AC004638, AC004841, Z85987, AP000031, AC005622, U91323, AC004999, Z95331, AC004534, AC005482, AP001067, AC004973, AI132708, AI021917, AC005659, AI133238, Z84469, AC007277, Z98941, AF067844, U91321, AC004087, Z98044, AI121754, AC002312, AC008928, AC006160, AC005658, AC004033, AC004025, AC004953, AI031985, AC004134, AC005211, AC004079, U89387, AF111167, AC000127, AI008732, Z98743, AC004796, AC005969, AC004144, AC005793, AC004935, AC008064, AI049709, AC004143, AC006011, AC004985, AI121577, AI049539, AC004084, AI022718, AI122020, AP000167, AC005488, AI132987, U95739, AI049843, AF001548, Z96074, AR034572, U91328, AC005088, AC004552, AC003078, AI022163, AI009181, AI133163, Z83822, AP000343, AC006430, AI031466, AI049855, AC007371, AC005105, AC006026, AI035407, AC004638, AI049872, AI034402, AC005280, AI022721, U82671, AC002522, AC000095, Z95113, Z95116, AC004992, AC006515, AI022316, Z93023, AC003010, Z84466, AC007707, AC004410, AC007057, AC006039, AC004927, AC003065, AC005033, AC007245, AI078463, AC007435, AC002492, and AI117375.
HLVYDC02	2966	919586	1 - 730	15 - 744	
HLVYDC77	2967	772022	1 - 438	15 - 452	
HLVYDD13	2968	657010	1 - 547	15 - 561	
HLVYDG06	2969	935149	1 - 645	15 - 659	
HLVYDG21	2970	856413	1 - 538	15 - 552	AI476323.
					AI306717, H81406, AI134167, AA496309, AI653823, AW408596, AA582746, AA837771, AI185394, AW237905, AI471586, AI186233, AA714011, AW084173, AI915081, AI973173, AI569700, F35684, AA368329, H40478, AA487226, AI520967, AA111870, AI678287, AA502207, AA581247, AI0018231, AI680547, AI298079, F33037, AI300818, AI310992, AA434078, AI078409, T08386, AI187148, AW069227, AI135363, AI755057, AA658131, AA715962, AA297006, AW722505, AA445949, AI634187, AI697242, AA077637, AI457313, AA375848, AA297698, AI272192, AI340832, AA557911, AW440451, AA778962, AI565138, AW028170, AA715983, AI653783, AI042373, AA947369, AA937809, AA071045, 942653, AC006479, AI034419, M87912, AI049839, AC005014, AF165141, AI133246, AI022323, AC007421, AI133245, AC005846, AI031984, Z84470, AC007993, AI022328, AC004385, AC004622, AI034429, AI049795, AP000142, AP000089, AC004817, AC004694, AC007773,

HL YDG27	2971	682910	1 - 568	15 - 582	AF001549, AC009247, AC007686, AC004230, AC006014, AP004472, AC005821, AC005081, U91326, AC004831, AC006236, AC002544, AF111167, AL035495, D87675, Z95152, AC012384, AC005488, AC005043, AC005104, AC005763, AC005015, AL023876, AB001523, AC004106, M55270, AC009946, AC004820, AC005519, AC002429, AC005924, Z84469, AC007386, AL050312, AC005911, AL031428, Z94801, AC004041, AL035683, AC004223, AF196779, AL035417, AC002094, AL031276, AP001065, AP000113, AP000045, AC007563, Z95115, Z97196, AC007436, AC006468, AC007156, AC004796, U07561, AL133035, AC003871, AC003963, AL031602, AL049766, AL031278, AL035458, AC005736, AF029308, AC007792, AL008707, Z98885, AC004025, AL132712, AC005288, AC007546, AP000313, AC005409, AP000501, AL031659, AL133312, AC005746, U62317, AC004076, AF196971, U95742, U91318, Z82195, AC006088, AC006285, Z82205, AL035414, AC004841, AP000050, AC007655, AC004874, Z95114, AL022394, AL050307, AL021579, AL031775, AL022316, AP000558, AC003669, AL109963, AC004129, AC005480, AL049872, AL049745, AC005189, AP000509, AL022326, AP000117, AL008734, AC004112, AC004383, AC004819, AF135187, AL135960, AL131016, AL049776, AC005078, AL022476, AC005829, AD000813, AC004148, AP000022, AC006582, AC006430, AC007308, AC003684, Z98750, Z82176, AC003982, AL109623, AC002077, AC005722, AC004253, AC002314, AL031393, Z97054, AL049540, AF001552, AC005551, AL096701, AC005280, AC004797, AC005328, AL109798, AL034420, AF002059, U62292, AP000163, AC006062, AC005612, AC005585, Z98743, AL035587, AL117352, AF048729, AL080313, AL031680, AC002364, AL049830, AC005773, AC002492, AC007052, AC006026, AC004765, AC002477, AC007216, AC005877, Z49236, AC004655, AL080317, AC007298, AL132641, AF139813, Z98048, AP000694, AC005206, AC005294, AL009172, AC005943, AF181897, AC002470, Z93784, AC005971, AL031686, AF064857, Z98304, AC005225, AL022312, AC004560, AC00120, AL031657, AL031283, AL022165, AB000931, AC006276, AL117354, AL031595, Z84466, AC005790, AC011311, Z83846, AC004228, Z82184, AL022318, AC005667, AL031589, AP001056, AL022333, AC007774, AC005513, AC007725, and AL031390.
HL YDG38	2972	597131	1 - 397	15 - 411	T83869.
HL YDG59	2973	871587	1 - 439	15 - 453	
HL YDH27	2974	678266	1 - 703	15 - 717	AA572675, AA579556, AL61854, T95591, T95067, and AA813887.
HL YDH32	2975	699082	1 - 717	15 - 731	AA527702.
HL YDH52	2976	726575	1 - 526	15 - 540	R99046.
HL YD108	2977	959055	1 - 513	15 - 527	AL590217, AA343092, AA317170, AW157326, AW256342, AA593060, C05755, C06327, AP957850, AA574282, A1114846, AW440976, A1923140, AL653905, AA330380, AW131249, AW390062, AA663306, F35659, AA947370, AA828984, A1291124, AA084070, AA244208, M86058, A1291268, AL537030, AL190911, AL312149, AL118947, AW406162,



					TI0560, AA837351, AA348929, AA704391, AA640979, AW167267, Z92844, AC000353, AC005690, AL137191, AL021918, Z86062, AC005911, AC005998, AC005702, AC004672, AL033392, AC004168, AL133335, AC003966, AC002985, AC005197, AC005350, AP000353, AC005625, AC004592, AC006162, AP000462, AC005704, AL021546, AC005233, AL021453, AL035457, AL022160, AP000359, AL022394, AC007536, AC007283, AC004802, AL031589, X03273, AC005620, AL096701, Z84718, AC002072, AC006251, AF165926, AC005180, Z83840, AC005619, AC004941, AC002327, AL049875, AL049860, AF042090, AP000555, AP000042, AC004834, AC005829, AC002347, AP000431, AC009247, AC004066, Z99774, AC002526, AC004019, AC003007, AL031347, AC008115, AC006480, AL031291, AC006925, AC005208, AF015170, AL034582, AL008734, X66401, AP000513, AC002073, AP000689, AC004884, Z73900, AC005696, U97187, AC005328, AL022238, AC004972, AC005632, Z83841, AC005786, AC007688, Z83846, AC005837, AL022721, AL021937, AC007899, AC005565, and AC004525. AW005554.
HLYDK74	2978	738346	1 - 555	15 - 569	AA129914, AA128462, H94876, H72836, and AL181808.
HLYDL24	2979	677041	1 - 488	15 - 502	D29642.
HLYDL60	2980	909866	1 - 378	15 - 392	
HLYDL75	2981	790244	1 - 555	15 - 569	
HLYDM51	2982	973377	1 - 503	15 - 517	
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HLYDM62	2983	743380	1 - 547	15 - 561	AL022098, and AC005215.
HLYDO56	2984	733240	1 - 220	15 - 234	
HLYDO75	2985	761170	1 - 346	15 - 360	AA026296, AA086041, AA086123, and AA026297.
HLYDS11	2986	966732	1 - 431	15 - 445	Y97786, AA007553, AL031432, AC004520, and AL031737.
HLYDS66	2987	771565	1 - 508	15 - 522	
HLYDS84	2988	687991	1 - 533	15 - 547	AW080134, AA377730, AA358122, AL264743, AA913114, AL035766, AL193007, N20066,

AI469968, N35896, AI075744, AI312309, AI648558, AA001418, AI888752, AW023672, AA482711, AA384502, AA593471, AI305547, AI471543, AA344959, AA452563, AI685198, AA569468, AA448231, AI672135, AA448375, AA977743, AA318652, AA226634, AI71481, AI345459, AI336660, AI471534, AW302309, AI206785, AA452744, AI446464, AI133102, AI161181, AI049707, AW276817, AA837755, AI133862, AI469624, AI565581, AI171750, AI266576, AW167267, AI133164, AI358343, AI439360, F23279, AW243960, AA394271, AI679706, AI313166, TI5948, R77905, C75026, AI341664, AI679132, AA626678, F37169, AI683577, AI118911, AI815000, AA084715, AW008317, AA482768, AI921188, AA434484, AA938225, F32705, AI044864, AI038833, H64777, AA364429, AA913549, AA4680211, AA377621, F25203, AW131249, N25296, H00934, AI017415, AW272758, AA340960, AI005388, AI135405, C19038, AA480762, AI814735, R98967, AI871722, F31204, AA328169, AI523897, AI571512, AA558697, F36273, AI824562, AA569471, AA634227, AI493217, AA363989, AA515435, AI583594, AA078849, AA338642, AA134335, AI282661, TI6592, N70648, AA702605, AA320830, AA016286, AI047643, AI87483, AW338869, AI126035, AA180370, AI126051, AW272641, AI143242, C17838, AI205126, F18974, H69914, AA558060, AI355224, AW074398, AI838451, F04987, AA077817, F37286, AA515128, AA780929, AI672857, AC000052, AC004019, AF035397, AC004935, AC006474, AF003627, AF207550, AI021707, AC005314, AC004466, AC004066, AC004916, AC007387, D86993, AF000049, AC007156, AC004039, AI035071, AC005341, AI109759, AC007387, D86993, AF000049, AC007156, AC004134, AC004859, AP000311, AC007397, AI035079, AC009542, AC004065, AC009330, AC004973, AC005076, AI023284, AC009464, U62292, AI034549, AF169121, AP000142, AP000128, AP000206, AI109657, AI031177, AP000245, AC006450, AI109985, AC004966, AC005667, AI023880, AI133246, AC004745, AC004030, AP000966, AC005740, AB033056, AC009509, AC002301, AC005971, AC006035, AF042091, AP000090, AC005822, U95740, AC006287, AI132800, AI185116, AF147277, AB020668, AI109755, U85195, AC006071, AI049611, AI034343, AC004690, AC002375, AF000658, AC005250, AF091512, AC006324, AP000503, AC006318, AI035659, AP000558, AC006565, AC006596, D87675, U63721, AC005619, AC006019, AC008116, Z84572, AC005046, AI023513, AI031587, AC007543, AP000011, AI034429, AI133500, AC004765, AI008382, AF134726, AC004638, AI021391, AF17403, AI031429, AI109628, AC005783, AC004034, AC002429, AC004028, AI022722, AC000379, AI096829, AC007917, AC002465, AC006946, AF006501, AF005264, AC005838, AP000115, AI049856, AI031846, AP000557, AC004139, AC003682, AF042090, Z49154, AC003003, AC006486, AI033525, AC009516, AC006008, Z84488, AC004531, Z98755, AC002433, AC005069, Z80899, AI109827, AC009989, AC005385, AC000119, AI133448, AC004773, AC002984, AC004848, AI003147, AF064861, AI034582, AC006195, AC005821, AC005159, AC000353, AC005274, AI078581, UI4702, AC006965, AC000159, AI031123,				
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HLVDS91	2989	775483	1 - 458	15 - 472	AL031229, U93237, AC005231, AC005180, AC007690, AL031575, AJ012197, Z68284, AC002564, AL050320, AL049831, AC005829, AL035458, AL034420, AC006026, AL096791, UI4714, UI4715, AC004087, AC002508, AC004895, AC005037, AL033327, AC005229, Z98304, AD000833, D83989, AL008722, AF109907, AL034370, AL031319, U73024, AL109847, AC006057, AF131217, AC004686, AL023353, U71218, AC004797, AL031311, AL050312, AC005911, AC006465, AC005412, AC007283, AC002073, Z81308, AL031432, AL049776, AC005516, AL049647, AL096701, U55182, AC004994, AL035420, AF051934, AC005800, Z97183, AP001039, AL031282, AL031012, AB077058, AC005211, AC005356, AC006048, U92032, AC010168, AB023058, AP000521, AL117355, AC005879, Z99716, AC004526, AF055066, and AL080243.
HLVDT03	2990	920268	1 - 557	15 - 571	AA482994.
HLVDT68	2991	526245	1 - 320	15 - 334	
HLVDL08	2992	959074	1 - 370	15 - 384	
HLVDV62	2993	927872	1 - 583	15 - 597	
HLVDX93	2994	669792	1 - 548	15 - 562	AA326846, A1074002, A1084046, AA187426, and AW453048.
HLVXDZ44	2995	716435	1 - 384	15 - 398	
HLVEB56	2996	710819	1 - 316	15 - 330	RI4337, AA485189, and AB030181.
HLVED52	2997	931992	1 - 350	15 - 364	AP983188.
HLVED59	2998	856383	1 - 688	15 - 702	
HLVED65	2999	747763	1 - 213	15 - 227	AL174993, N94590, W23797, AA585403, AL1383156, and AC000353.
HLVED77	3000	615312	1 - 419	15 - 433	H72741.
HLVEE34	3002	703906	1 - 554	15 - 568	
HLVEE81	3003	488925	1 - 555	15 - 569	AA888665.
HLVEL47	3004	666448	1 - 563	15 - 577	
HLVEN93	3005	682176	1 - 612	15 - 626	
HLVEQ40	3006	710986	1 - 297	15 - 311	
HLVEQ73	3007	760566	1 - 339	15 - 353	
HLVER38	3008	709181	1 - 386	15 - 400	
HLVET03	3009	923834	1 - 447	15 - 461	
HLVFA27	3010	682763	1 - 525	15 - 539	AA164189.
HLVFA58	3011	835409	1 - 393	15 - 407	AA405746, AL479114, AA845235, AT766637, and AI361762.
HLVFC15	3012	923620	1 - 858	15 - 872	AA504562.
HLVFF10	3013	964109	1 - 563	15 - 577	AW085626, W24802, AT754926, AA527633, R63460, AW028376, R23449, AA465198, AA338395, AT197998, R96319, Y18000, AC004000, AC005971, AC004882, AC005529,

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HLVFF64	3014	746339	1 - 476	15 - 490	AA858380, AW269071, AW271095, AW302832, Z1284536, AL251563, AL252141, AL733946, AL733930, AL792695, AL792746, AL792842, AL252190, AL792856, AL080242, AC004876, AL004645, AC006111, AC000091, AC004169, AR036572, U91328, AC004771, AL031775, AB001523, Z99754, AC004652, AC006129, AC004509, AC004828, AL022239, Y07661, AD000684, and AC000026.
HLVFF64	3015	924558	1 - 529	15 - 543	AA287719, AB065921, and AL1418161.
HLVFFK47	3016	953988	1 - 423	15 - 437	AL061334, AW088202, AW162049, AW080134, AL570261, AL929531, AW104748, AA482711, AL046409, AL357551, AP63720, AW714453, AL471481, AL341664, AP62050, AL344844, AW029038, AL049634, AL350211, AA581903, AL814735, NS3150, AL133636, AW166815, AL567674, AA610491, AL291268, AW193432, AL291124, AW302013, AL688846, AL809023, AL375710, AL339850, AA713815, AW265009, AW193265, AL284640, AA559290, AL561255, AL669453, AL761471, AA826303, R94721, T07451, AL801600, C05755, AA501600, AL679782, AL68745, AA594145, AA649642, AL613280, AL161095, AL722048, AL561060, AL589230, AL652057, AL625244, AL860020, AL283911, AW062724, AL120674, AW440836, AL469003, AW438643, AL531372, C06458, AA5384752, AL049722, AA828704, AL251002, AL537955, AA350859, AW276827, AA513141, AA623002, AA316905, AL669443, AL357288, AL1610920, AA479069, AL370878, AL431303, AA513181, AA079831, AL446601, AL374809, AL345654, AA652764, AA302963, AL057547, AW079135, AL251436, AL364809, AA143516, AA806796, AA598824, AL198376, AL635818, T28550, AA340747, AL1918421, AA551503, AA491814, AL917271, F04478, AL859742, AL890348, AA084070, AA582911, AL1888518, AA843450, R08967, AW008212, AL654525, AL270117, AA847499, AL744995, AW238278, AW276817, AA513293, AW273218, AL301700, R97934, AW070892, AL21271, AL619997, AA934680, AL632868, AL564185, AL799642, AL371070, AL719805, AA364224, AA831375, AA348929, AL801591,

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HLFYF083	3017	863918	1 - 449	AA594591.
HLFYF23	3018	675373	15 - 529	
HLFYF38	3019	709184	1 - 108	
HLFYF64	3020	936051	1 - 429	AI469555, Z33443, N76673, AA069889, AA281224, Z774620, AL031602, Z770227, AP0003336, AL022577, AL035653, AP000215, AC004646, AB006903, AJ239329, AL078477, AC004081, AF186194, Z95703, AC005726, AF000084, and AP000221.
HLFYF27	3021	682776	1 - 168	AC002458, AC005412, and AC007065.
HLFYF40	3022	710851	1 - 490	N76624, and AC005740.
HLFYF96	3023	916452	1 - 232	AI187732, and AA706963.
HLFYF33	3024	719251	1 - 300	AA332500, AI024945, AI493761, AA340178, AI192435, AA032024, AA452969, AA447052, AI038406, AA575836, AI143749, W38849, AA643304, AA811387, AA296364, AA829930, AI783713, AA568692, AI672767, W58767, AA443666, AI708679, AI761290, D82533, AA890233, W56507, AI312651, C08835, AI247870, AA639508, AA847787, AI338935, C05751, N80205, AA412478, AA828434, AI4928571, AI741989, D83838, AI078010, AI911125, AI888718, AA814538, D83836, AI206832, AI241436, AA628649, AA676899, W52897, AI683306, H44229, AI932299, W50778, AA897470, AA452830, N93132, C06275, AA523873, R10897, AA659136, N69930, W38563, AA715017, U57692, and U57691.
HLFYF78	3025	660000	1 - 477	
HLFYGA32	3026	698860	1 - 543	
HLFYGA46	3027	952292	1 - 754	
HLFYGC11	3028	966480	1 - 461	
HLFYGC18	3029	665721	1 - 543	
HLFYGC63	3030	744739	1 - 526	
				AA381269, AI859834, AA663966, AI750955, AI350211, AW193265, AI537077, AA490183, AI434695, AA515905, AA577906, AI151407, AI613280, AW276827, AA857486, AI754658, AL118991, AA483223, AI979003, AL048925, AI744995, AL041706, AA623002, AL038705, AW080811, AA594145, AA713891, AA469451, AA493708, H73230, AI860013, AI379719, T47936, AW050734, AW275719, AI433247, AI040382, H88666, AW276435, AI814735, AA503258, AW263864, AI859946, R17793, AA177061, AA652764, F36273, AA665021, AI635279, AI061313, AA226153, AA721524, AL119691, AI122223, AA493621, AA488746, N76766, AI933714, AI570943, AA846876, AA587604, AI745151, AA806796, AW103758, AI585501, AA502963, AW337454, AA613203, AI204304, AA599480, AI561000, AA679663, AA569471, AW129001, AW338086, AI623898, AA503154, AW408707, AI779783, AI478115, AI708444, AI865213, AI708009, AA598425, N53150, AI446474, AA653582, AW021583.

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HLYG28	3031	686173	1 - 565	15 - 579
HLYGH53	3032	871636	1 - 870	15 - 884
HLYG123	3033	656698	1 - 245	15 - 259
HLYK24	3034	676907	1 - 267	15 - 281

HLYQK77	3035	732462	1 - 433	15 - 447	AL035410.
HLYQK82	3036	698553	1 - 360	15 - 374	
HLYQK96	3037	977628	1 - 467	15 - 481	
HLYGM41	3038	712099	1 - 387	15 - 401	AA513861.
HLYGM53	3039	690748	1 - 629	15 - 643	AA173740.
HLYQPI5	3040	920077	1 - 539	15 - 553	
HLYQIP26	3041	790301	1 - 415	15 - 429	H56560, R06615, T83748, N92020, AA7070219, H90265, and N63876.
HLYQIP46	3042	832311	1 - 982	15 - 996	AL004177, AW051735, AP923749, AL635200, AL201473, AT766831, AL352428, AA866576, AL380688, AD936241, AW393044, AW574354, AL318183, AW393061, AW374438, AW05539, AW364275, AL3300050, AA909208, AL273127, AA814294, AA705616, AL698332, AL814050, AL731218, T27697, AA878157, N56436, AL224032, AL540961, AA291160, N35079, AW402662, CL6472, CL6435, H99331, AW408278, and D25278.
HLYQGR39	3043	744849	1 - 341	15 - 355	AC004777.
HLYGV02	3044	836376	1 - 389	15 - 403	
HLYGV07	3045	879387	1 - 489	15 - 503	T87263, H94155, and AA053829.
HLYGV66	3046	697627	1 - 600	15 - 614	
HLYHB85	3047	773990	1 - 548	15 - 562	
HLYHGG30	3048	590369	1 - 597	15 - 611	AA400056, H69347, H69346, AL021155, AL031588, and AL034418.
HLYHGI18	3049	665713	1 - 439	15 - 634	AA075210.
HLYHQ45	3050	711741	1 - 620	15 - 634	AA3300319.
HLYHI75	3051	767066	1 - 550	15 - 564	AW198107, AA917906, Z36759, H87259, AL521360, AL247128, AL207422, AA8343450, AL601230, H47835, AL031657, AC000379, AC005971, AL027165, AC005037, AL049776, AL021391, AC007938, AC004602, Z98036, AL236694, AL034549, AL022238, AC006441, AD001527, AF047825, AF196989, AL022328, AL049843, AC005531, AC004882, AL080243, AC006663, AC006237, AP000563, AC005482, Z95115, AC005531, AC004882, AL080243, AP000133, AP000509, AL021878, AC004797, AL049869, AL049594, Z83840, AL21653, AC006117, AC002091, Z93244, AL035086, AC005332, AP000126, AP000204, AL079342, AL109839, AC005300, AC005206, AC005839, AC003663, AL109963, AP000553, AL098372, AF134726, AC005031, AC006312, D84394, AC005519, AC005667, AC004087, AC007050, AC005899, AC004998, AC002477, AC005808, AC005089, AL031295, AC005183, AL109984, AC002418, AL022327, AC003035, AC006515, AC009311, AC004099, AL049694, AL109738, AC004491, AC005015, AC004815, AC006515, AL096712, AC004386, AL021579, AC002470, AL096761, AC007240, AP000704, AC005017, AC006501, AC004228, AC005562, L31848, Z84476, AC012384, AL031407, AL008723, AC009516, AL031983, AC005018, AL049552, AF196971, AL133163, AC005069, AC005529, AC004525, AL022311, and AC007114.



HLVHK02	3052	919199	1 - 525	15 - 539	AC004472.
HLVHL74	3053	765292	1 - 534	15 - 548	AA539182, AA573068, AA491823, AC005386, AP000692, AC004662, AC007386, AC007387, AL121653, AC002330, AC002404, AL022320, L05367, AL078581, AC004921, and AL096701.
HLVHNM6	3054	784724	1 - 461	15 - 475	AA569573, and AA908998.
HLVHNA7	3055	720019	1 - 570	15 - 584	HL15547, F02465, and N73834.
HLVHNM67	3056	920551	1 - 708	15 - 722	AW387103, R67677, AW404276, H03065, AW403805, AW387108, AL360165, AL891114, AL346739, AA115361, AW410383, AA476376, AH493775, AL373735, AW005762, AL683639, AA814726, AL885010, AL707165, N77394, N52435, AA548360, AA804529, AL355842, Z43872, H12922, F11250, and AET16915.
HLVHQ49	3057	659883	1 - 262	15 - 276	AA380617, and AC005041.
HLVHQ79	3058	751428	1 - 548	15 - 562	H57483, AL888261, R02056, and AA594742.
HMAAA35	3059	773472	1 - 507	15 - 521	T73196, AC007182, and Z64784.
HMAAE04	3060	385644	1 - 317	15 - 331	
HMAAE83	3061	745077	1 - 420	15 - 434	
HMAAF10	3062	968199	1 - 413	15 - 427	
HMAAB156	3063	907640	1 - 401	15 - 415	AW445199, AL291885, AL796788, AL291659, AL681688, AL586930, AL863432, and AL371323.
HMAABN34	3064	706264	1 - 459	15 - 473	AL523278.
					AL865938, AA608751, AA639946, AL865807, AW068316, AA528500, AA365586, AA603530, AL814739, AL874201, AB023048, L34294, AC004659, AC005696, AL080243, AC0004796, AC006153, U95742, Z94721, AC004821, Z98745, AC007216, AC005678, AFI96779, Z98742, L78810, AC004851, AC007055, AL133448, Z85987, AC005081, AP000563, AC002128, AC004812, AC002470, AP000133, AC004491, AC006130, AL021154, AP000558, Z82195, AL109682, AL022323, AP000211, AL031311, AP000510, AC004150, AC005200, AL031662, AL034420, AC004859, AC006111, D91326, AL035587, AC005914, AF060568, AC000159, AL022322, AP000300, AC003010, AP000555, AC007546, AP000251, AL049776, AC005529, AC005519, AC009516, N59230, AC006571, AC004522, AC004645, AC004019, D87011, Z93930, Y18000, AC005747, AC005015, L44140, AL136295, AC002544, AC005412, AC005067, AC003070, AC004834, AL021808, AL031737, Y14320, Z93241, AL121769, U29895, AC005358, AL049643, AP000030, and AC005940.
HMAABQ71	3065	729831	1 - 500	15 - 514	AW298595, AA465415, AA769410, AA465345, AA468904, and AA971248.
HMACS56	3066	733395	1 - 435	15 - 449	
HMAAD02	3067	920088	1 - 205	15 - 219	
HMAAD177	3068	780874	1 - 143	15 - 157	
HMAAD33	3069	970491	1 - 431	15 - 445	
HMAADX31	3070	697994	1 - 248	15 - 262	AW452893, Z25062, AL215990, AL099527, AL147565, AL004649, AL291404, AL669727, AL820914, AA479756, AW005022, AA831051, F00452, AA825896, AA885489, AA725719, AA588432, AW071714, AA583305, AW451815, and AA969033.

HMAJ255	3071	939916	1 - 732	15 - 746	AW177706.
HMAJ62	3072	744337	1 - 347	15 - 361	
HMAJF057	3073	734688	1 - 322	15 - 336	
HMAJF77	3074	856267	1 - 368	15 - 382	AA362198, W21176, H87432, and AA302842.
HMAJF35	3075	925049	1 - 427	15 - 441	
HMAJF55	3076	73286	1 - 417	15 - 431	
HMAJF30	3077	692598	1 - 500	15 - 514	AW392670, Z99396, AW3784394, AW372827, AW363220, AL119497, AL119431, AL119443, AL119496, AL119319, AL119335, AL119457, AL119324, U46341, AL119483, AL119484, AL119363, AL119391, U46351, AL119335, AL119522, AL119396, AL119418, U46350, U46349, AL134902, AL042975, U46347, AL119444, U46346, AL042551, AL037205, AL134536, AL042450, AL042614, AL119439, AL042433, AL042984, AL119399, AL042965, AL119401, AL134920, U46345, AL134527, AL134525, AL134538, AL142131, AL043019, AL042970, AL119488, AL042896, AL042544, AL043029, AL042542, AL043003, AL119464, AL037027, AL036765, AC005065, A81671, AR060234, AR066494, AR054110, AB056436, and AR060979.
HMAJFY42	3078	778521	1 - 409	15 - 423	AW020992, AA312190, AB077395, AA356734, AW0403328, AA357475, AA352723, AW401989, AA352880, AL631812, AA347435, AA378937, AA360333, AA347660, AA347524, AW250682, T80305, N34180, AL191246, AF112209, AF052504, U72519, U70211, and AF131766.
HMAJF261	3079	741754	1 - 90	15 - 104	
HMAJGK69	3080	723186	1 - 535	15 - 549	
HMAJH62	3081	736039	1 - 321	15 - 335	
HMAJH804	3082	694042	1 - 98	15 - 112	
HMAJH30	3083	823422	1 - 147	15 - 161	AL035413.
HMAJH569	3084	735355	1 - 469	15 - 483	
HMAJIC22	3085	947905	1 - 423	15 - 437	
HMAJIP90	3086	681320	1 - 308	15 - 322	
HMAJUI62	3087	856278	1 - 539	15 - 553	
HMAJY01	3088	916259	1 - 459	15 - 473	AA779075, AL037910, AA837351, AL134330, AA993198, AL084012, AW403720, AA300052, AA173970, AL045709, AA393847, AA779783, AA811580, R59660, AA262752, AA665257, AL570943, AL978712, AL377413, AL814721, AA059415, AV270619, AA568826, AA664235, AL903081, AA159516, AA252641, AC006965, AC003687, AC005741, AL049745, AC003738, AF118808, AC004534, AC004841, AF121782, AL035684, AL034402, AF124523, AL031285, AL080317, AL132987, AP000961, AC002351, AL050338, AL133246, AL008709, AL000060, AL035089, AL020990, AL049838, AC002385, AC0005610, Z99495, and AC006368.
HMAJKA11	3089	801917	1 - 1707	15 - 1721	
HMAJKF82	3090	856311	1 - 603	15 - 617	
HMAJLL66	3091	956195	1 - 496	15 - 510	AL8226091, AA580077, AL1359456, AL362274, AL361512, AA861038, AA961076, AW008827,

HMAA69	3092	975074	1 - 431	15 - 445	15 - 2674	AI658621, AI66484, and AC000392.
HMAA69	3093	955999	1 - 2660	15 - 2674	AI049648:	AA780265, AI921096, AI766065, W63619, AA399960, AI912594, AW204723, AW300114, AW182579, AI681695, AI634542, AW300127, AW134790, AI672402, AI632484, AI991208, AI921108, AW273778, AI672557, AA829864, AI887668, AA237046, AI498167, AW274451, AI703437, AI870323, AI713566, AI688759, AA455660, AI333733, AI143030, HI8069, W73117, AI870510, AW006266, A977594, AI699606, AI862877, AA167089, AA029847, AA548871, AA602625, W44772, N24939, AA485904, AA668693, AI268864, AA281074, AI130979, AW003963, AA446601, AW189836, AI971599, AI273393, AI392880, AW197453, AI278947, AI351669, N62971, AI308071, AI936847, H98724, AA836448, AI440191, AI989522, AI011285, AI589281, AA293010, AA827358, AI339270, AA459005, AA455715, AI860721, AI302146, AA524204, AA305574, AI364520, AI090733, N66064, H97021, AA135737, AA432293, H72683, N24292, AW190461, AI027367, W93402, AI912153, AA962416, AA719182, AI367284, AW205556, AA911230, AA029982, AA399292, R11703, D25619, H97049, AI699130, N23812, AA952896, N36243, AI68162, AA723573, AA476536, AI214579, AA594325, AI694799, AA975509, AI50983, AI122611, N35346, R61136, AA459224, AA024419, AA044981, AA971127, AA976353, AI631939, AW023248, AA806738, H25442, AI572175, AA858127, AA278458, AA034091, W37092, AI370017, AA024420, D82669, H25487, I35969, T83721, N22469, AI473134, AW150562, T16805, AI383106, R12119, T36116, AI188357, AA988155, H17376, T39763, AI823318, T39771, T39737, AI341595, AA906253, AA715091, N99439, AI611116, N44714, AA281192, T39788, T39778, AA203543, N72004, AA383416, F04896, HI0770, Z40617, AA857399, T98192, T98193, AI918795, AW274013, AA907736, AA906256, Z43451, T39764, T17433, AW089288, AI696191, AI692608, AI638777, R47794, AA459004, AA700917, AW378486, HI873655, T39745, AW057906, AA301109, AI368524, AI873204, R40787, W93614, W61128, AI471097, AI935327, AA927938, AA904804, AA010846, N95657, AA034960, HI0769, AA091950, N79875, N56479, AW138315, R50437, AA236848, AA724749, AA383283, AI001837, AA365102, AA093695, AI765014, AA471159, AI686101, H72682, AW362319, R07569, and AI091461.
HMACA27	3094	959557	1 - 553	15 - 567		AI817881, AW271350, AI452595, AI698804, and AI072316.
HMACA60	3095	586435	1 - 288	15 - 302		AA179308, AA122166, AA166791, Z25347, N41968, AI087936, AA505715, AA037848, AA751931, AA748014, AA740754, AI193280, AA610857, and I79986.
HMACA01	3096	916843	1 - 606	15 - 620		
HMACA025	3097	856241	1 - 255	15 - 269		
HMACA W49	3098	974119	1 - 555	15 - 569		
HMACA267	3099	751804	1 - 574	15 - 588		R95734, AA702224, AA557260, AW304938, AI761850, and AI223183.
HMCB05	3100	932146	1 - 348	15 - 362		
HMCCA45	3101	722027	1 - 430	15 - 444		

HMCCB30	3102	692330	1 - 381	15 - 395	AC004682, AW135935, AW138952, AW137754, AW135962, AW138823, AW138870, AW136428, AW207624, AW139869, AW341135, AW458161, AW341795, AW36474, AW102804, AW198857, AT05685, AW692679, AW340949, AW1860249, AW223102, AW341157, AW268060, AW1680872, AW692602, AW459177, AW1819255, AW274456, AW791139, AW78332, AW457094, AW168190, AW797065, AW689805, AW070376, AW419338, AW117584, AW458888, AW932423, AW150020, AW662985, and AC005829.
HMCCB78	3104	773660	1 - 290	15 - 304	AW298470, AW082724, AW304868, AW484442, N20641, AW018013, AW4776579, AW2993387, AW124624, AW298354, AW804512, AW737473, AW1280305, AW923469, RS0142, AW4837153, AA921954, AA827804, and AA748461.
HMCCDB42	3105	713051	1 - 474	15 - 488	
HMCCDM32	3106	699249	1 - 432	15 - 446	AW488432, RW7507, AW001526, AA102031, AA443065, W33067, F18394, AW243706, T51965, AA61430, AW747222, AW104962, AC629597, AW742320, R44592, AW536798, AW5161335, AC003030, AW659856, AW670124, AA330772, N64437, R79496, AW119025, AA364193, AA642265, T65735, AW135798, AW196052, R78564, AW481365, AA345330, AW270284, AA481375, AW4669387, T29360, AA365248, AA825793, W78150, AA620390, T60791, AW814201, AA484148, AW758382, AW747472, AA747620, W95528, AW284583, AA312878, AA3752316, AW149874, AW179771, H39713, H44095, AW341892, AW446464, AW69687, AA312878, AA374820, R81240, H14935, AW745560, AA935789, T71030, AA984387, AA244415, AA828696, AW475431, AW658235, AW68134, AA226364, AA834820, H85382, R13151, AW01600, AW747535, AA145522, AA658235, C18648, AW573695, AW061089, W77950, AW720583, AA551575, H04821, AW01591, AA135119, AW134484, AW169997, AA641103, AW029526, H14931, T71998, AA669522, AW298977, AW1225141, AA513939, AW630834, RS4885, AW265809, AW439360, N55273, AA499134, AA829405, T115977, R66997, AW211188, AA595533, AA788883, W45336, AW699503, AA192695, H26689, AW157229, AW177063, AW758934, AW172684, AW118911, AA533450, AW139719, AW565581, AA242863, AW327868, AA533038, AW613261, AW118911, AA533450, AW1871992, T91024, W792108, AW58267, AW1048626, AA533092, AW101338, AA196020, AW164251, AW1340453, W7913, AW64864, AW041382, AA192337, AW557323, AW034177, N87410, AA525898, H73070, AC003663, AC007258, AW051521, AC006611, AC008079, Z85986, AW1133485, AC006210, AC004276, AC004859, AC007919, AC004194, AW1333531, AC005255, AW109984, AP000338, AP000216, AC008101, AW1031774, U20250, AC004638, Z85987, U90297, AC010349, AC016830, AF128525, AC004383, AF124523, AF147341, D31377, AC005230, Z93930, AP004863, AW028807, L16016, U72790, Z84466, AW600394, X64467, Z99734, D16583, AC005759, AP001056, AC005564, AC005542, AP000698, AC007766, AW1021977, AW1008716, AW1808245, AW022311, AC005591, AC007401, AW117325, AW1049758, AC004776, AC004001, AW1035073, AP000692, AC004891, Z83841, AC004941, AC005208, AC007243, AC004468, AC002472, AW028068, AC005548, AC007664, AW1031651, AC005544, AC008012, AW1021395,

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HMCDN22	3107	895981	1 - 615	15 - 629	AW264938, AA039677, A1554747, AL696900, AL042720, AL045791, AL040219, AA614566, AA459899, AL697044, AA077186, AL201384, AA040234, AA622883, T62577, AL076623, AL247893, AA322208, AA074393, AL858610, AA280172, R10147, AA308856, AL267803, AL870586, AL046240, AA757892, AL048960, AA249116, AL267805, AA906248, AL267724, AW372467, AA999887, H19634, AL203658, AA910849, AA906244, H19636, AL129946, AL049014, AL289213, AL656920, AA996066, AW197305, AL0078294, AA345106, AL042573, R10553, N22657, AA127979, AC006014, AC005488, AL007798, AL137492, AC005071, AF030453, and AC005088.
HMCDT92	3108	974588	1 - 483	15 - 497	AF092170, AF094827, AF053316, AF073481, and AF153472.
HMCF71	3109	760034	1 - 99	15 - 113	AC005799.
HMCFB22	3110	963794	1 - 508	15 - 522	AL117694.
HMCFB51	3111	725425	1 - 414	15 - 428	AL117694.
HMCFW22	3112	674074	1 - 736	15 - 750	AL117694.
HMCGG31	3113	697533	1 - 373	15 - 387	AL117694.
HMCGJ36	3114	708050	1 - 149	15 - 163	AL117694.
HMCGN29	3115	690288	1 - 347	15 - 361	AL117694.
HMCGW54	3116	846134	1 - 339	15 - 353	AL117694.
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HMCXY77	3117	753133	1 - 389	15 - 403	AW352117, AW177440, AW375405, AW377671, AW178893, AW360811, AW35959, AW36296, AW360844, T03269, AW360817, AW179332, C14389, AW179328, T48593, AW375406, D80439, AW378534, D58283, AW377672, AW179023, AW178905, D59859, D80022, C14331, D80166, AW177731, D80212, D80195, D80193, D59927, D59467, D51423, D59619, D80247, AW378528, D80210, AW178906, D51799, D80391, D80164, D59275, AW178762, D80240, D80253, D80045, D80038, AW179019, D80043, D59787, D80227, D59502, AA305409, AW378532, AW360834, AW177501, AW177511, AW377676, D81030, D81026, D80269, C14014, D80268, D80366, D80196, D80188, D51022, D80248, D59979, D80219, AW378533, D80522, D50995, D80302, C06015, D51200, AA305578, AW179020, C15076, D59610, D51060, AW352171, C14429, D57483, D51103, AW352170, D59889, D80133, AW178907, AW177733, AW178908, AW179024, D80024, AA514186, AA514188, D80157, AW178911, D80378, D45260, AW179329, AW177505, AW177456, AW178775, AW367950, D80241, AW178909, AW176467, AW179004, D80251, AW178980, AW178986, AW178914, AW178774, AW178754, AW179018, AW352158, D80390, D80314, AA285331, C03092, C75259, AW378539, AW378543, AW378525, AW378540, AW352163, C05695, AW525923, AW178781, FL3647, AW360855, AW525913, AW525917, AA514184, AW527774, AW525925, AF123263, L50126, L50132, L50128, L50133, AR066488, AR016514, Y17187, Y17188, A94995, Y12724, AR028859, AR060138, A84916, A45456, A67220, D50010, D89785, A62300, A62298, Y09669, AB028859, A82595, A78862, D34614, D26022, AR060385, A30438, AJ132110, AR018138, A26615, AR052274, A43192, AR008278, X67135, A43190, AR038669, AF058696, A25909, AG3261, D88547, X82626, AR008443, AB002449, D13509, A70867, AR062872, AB019242, AR016691, AR016690, U46128, AR025207, A64136, A68321, AR060133, AR008408, AR032065, and X68127.
HMCHE16	3119	856332	1 - 403	15 - 417	AA380953, and AA917719.
HMCCHG76	3120	769734	1 - 498	15 - 512	AL628096.
HMCCHK22	3121	974585	1 - 627	15 - 641	
HMCCLA10	3122	963791	1 - 327	15 - 341	
HMCCLA94	3123	855999	1 - 325	15 - 339	
HMCCHK90	3124	785596	1 - 389	15 - 403	AL381684.
HMCIS32	3125	698541	1 - 373	15 - 387	
HMCCKC30	3126	671952	1 - 354	15 - 368	
HMMABAB9	3127	462502	1 - 356	15 - 370	D29160.
HMMACI10	3128	964846	1 - 299	15 - 313	AA468110.
HMMACI19	3129	953580	1 - 342	15 - 356	AA689256.
HMMAC79	3130	577951	1 - 443	15 - 457	

HMMAD06	3131	935734	1 - 388	15 - 402	AL031053.
HMMAD35	3132	964749	1 - 817	15 - 831	AL281624, AWA50798, and AC002302.
HMMAD40	3133	666181	1 - 431	15 - 445	AC007165.
HMMAD58	3134	891329	1 - 668	15 - 682	AP000556, AP000552, AP000557, AP000128, AP000206, and AP000245.
HMMABE12	3135	970892	1 - 534	15 - 548	
HMMABE43	3136	971581	1 - 344	15 - 358	
HMMAT44	3137	855916	1 - 354	15 - 368	
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HMMMAF70	3138	577918	1 - 695	15 - 709	W05478, R27065, R23185, AA48346, AA744630, N71117, AA662694, AI610124, AL041926, X93207, and X93208.
HMMMAF73	3139	506275	1 - 382	15 - 396	
HMMMAH23	3140	677861	1 - 296	15 - 310	H72232, R47235, AC007993, Z98941, AL022336, and L44140.
HMMMAH45	3141	674953	1 - 70	15 - 84	U61225, U61243, U60971, U61239, AC004883, U57834, and AF184614.
HMMMAI03	3142	860715	1 - 299	15 - 313	
HMMMAI56	3143	734563	1 - 306	15 - 320	
HMMMAI61	3144	718876	1 - 465	15 - 479	AI355246, AW340905, AI249688, N57681, AA577824, AA904211, AL049630, AI038304, AW265279, AI366180, AE009972, R93919, AI762528, AI280266, AW265276, AI962030, AI754367, H29914, AI569100, AW192599, F35684, AW105463, AI755214, AW268090, AI953360, AI889579, AA584594, AA342238, AI306717, AI445373, AI653776, AI271762, AI268019, AI277783, AW022796, AI080307, AI824541, AI050076, AW082104, AA666215, AI754105, AW131356, AW736488, AW084173, AI283938, AI120282, AI133514, AA302982, AA558404, T03928, AA018923, AI923052, AA578492, AW301483, AI049845, R67701, AA456149, AA604831, AA297776, T40629, AW237905, AA302812, AA363027, AI885465, AI281818, AI720403, AW089625, AA487209, AA714190, AI634323, AA206707, AA610255, AW051819, AI049676, AA010941, AW337526, AW166641, AA847704, AI679045, AI250552, AI243793, AI251034, AA551798, H90114, AI254770, AI284543, AA714073, AI054090, AW029515, AI278972, AA219349, AW028950, AW265688, AA678932, AA484892, AA440568, AA626840, AI567391, AW265126, AI217131, W39287, AI049534, AI679759, AA493808, AA371410, AI247101, AI801479, AA846923, AA102737, AI185394, AA564925, AA630947, F34914, AA218684, AW129188, R86977, AA084320, AL079734, AW272599, AA618035, AA804694, H63758, AI354330, AI369076, AW328331, AI520925, H40478, AA947265, AI246996, AI565084, AA501614, AA838120, AW242031, AI251284, AI251203, AI223626, H94979, AI249853, AI446336, AI733856, AW008184, AA598927, AA458534, AA632556, AW081485, AA300177, AA535756, AW328330, AI242614, AI066646, AA629888, AI751753, F01222, AW081610, AI557628, AA877092, AW192402, T94394, AI431513, AI4827875, AI877951, AI955029, W45016, AA535216, AI246192, AA557911, AA502110, AA504051, AI417586, AA590080, AA132953, AA493789, AI358712, AI256019, AA873303, H06935, AW162697, H84412, T71936, U89337, AL049776, AI133312, AC005736, AL031597, AC007225, AF053356, AC002492, AC005058, AC003992, AC005899, AC004230, AL021920, AC002312, AL122020, AC007690, AF109907, AI022717, AL031602, AC006960, AI020997, Z95115,



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HMMAL18	3145	666195	1 - 335	15 - 349	
HMMAL28	3146	677446	1 - 419	15 - 433	
HMMAL63	3147	744861	1 - 422	15 - 436	<p>AL252124, AL047643, AL061313, AW103415, AL138171, AL090513, AL674290, AL809028, AL890570, AL045451, AA715508, AL054030, AA832152, AL141675, AA683031, AA399158, AL287964, AA837709, AL037914, T94714, AL050007, H94871, H64905, AW403177, F23268, AL039761, N57057, AA313078, F28122, AL521112, AL039451, AL279756, AA422942, AA528405, AA375160, D44626, AL124660, AW339568, AA310796, AC005694, AC005529, Z96074, Z93017, AL022336, AC005588, AC005291, AC005102, AC002375, AC006537, AC004647, AC004816,</p>

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AL0989372, and AL031589.	15 - 451	1 - 437		
AL046246.	15 - 469	1 - 455		
	15 - 425	1 - 411		
	15 - 407	1 - 393		
	15 - 496	1 - 482		
AA773473, AA532875, AL207476, AA745302, AL370170, T94072, R52008, AL354333, F33490, HI13120, H90114, AA335519, AA525807, AL432298, AA535483, AA713705, AA553332, AA482953, AA214227, AL18661, F35902, F23307, F00211, A W080215, A W381847, A W381904, AA713735, AL054414, H73550, AA626411, AL445774, AL620266, AA828897, AB033681, AL811647, AO018369, W45205, AA425924, AA364006, AL042310, AA626595, AA372881, AA937809, AL192293, AL925462, AA092862, T83057, AA363003, AA384207, C15362, H80989, AA629568, AL12090, AL690497, AA525379, AA856841, AL312784, AL733717, AA513884, AA376358, AA382746, N21300, AA715418, AP047825, AL035405, AL031602, AC005244, Z93241, Z49236, AL035659, AC005295, Z98884, AL031848, U63721, AC004128, AL034379, AC004988, AC002369, AC005828, AL121754, AL022336, AL031291, AC000120, AC004811, U95741, AC005182, AC002416, AC005086, AC002107, AC002106, AP000065, AL133448, AC008928, AL096701, AC005793, AP000270, AL031283, AC002477, AP001172, AC004631, AF148808, AL022327, Z93023, AB015355, AC006101, AC002511, AL122020, AC004967, AC002091, AC004821, AC005914, AP000304, AP000047, AP000032, AP000103, AP000115, AC004801, AP000493, AL049760, AC005993, AL035450, AF207550, AL117694, AC005049, Z98044, AL024498, AC007058, AL022163, AC005327, AL121769, AD000812, AC005045, AP003501, AC005510, AC007226, AC006312, AC000305, AC006476, AC006057, AC007546, AC003041, AL049829, AL031597, AF024533, AC005488, AL021453, AC005529, AC000070, AC005512, AL049548, AC006365, AF031078, AF030876, AL034348, AC007536, AC004013, AJ010770, AL096428, AB020863, AC002352, AC002126, U62317, AF196972, AC005539, AL109952, AC005324, AC005880, AL109623, AL049692, AC005264, AL1132712, AC0090946, AC006409, AC003563, AC002301, Z82178, AC005280, AL117258, AC0055786, AL096766, AL049570, AC004106, AL135879, AL121790, AC004460, Z97832, AP000320, AL096765, Z98200, AC007192, AL008718, AC006077, AL049776, Z82215, AF196969, AL135960, AL131016, AF015416, AC004525, AC002303, Z85996, AC007308, AC007227, AC000378, Z68192, AC005105, AC006014, AC005088, AP000510, AL049301, AC002319, AL022726,				

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				15 - 614	AF039185, H94332, R18760, Z44908, AS191051, AL022238, AL121580, AL008721, AF178030, AC005694, Y18000, AL133224, and AC005529.
				15 - 458	AA501441, AA632988, AA714955, AA618240, AL889579, H16358, AA136253, AA664126, AA719091, T94394, AA136477, AL355246, AW019964, H68343, AL306717, AV002891, W95552, AA368329, AW373542, AA494057, AA835778, AW237905, AA055422, AA482792, AL054090, AA630854, AL246061, R93919, AA650447, AL19391, AA378207, AL860535, T54173, AL609972, AL133083, AL300818, AL310992, AA847340, H86579, H93152, AA515939, AA670108, AL34568, AA503018, AA736488, AA683069, AA779967, AA831997, AA641112, AA229823, AA5450989, AA594719, AA837771, N27874, AA524616, H78984, AL417586, AL679390, AL679898, AL445774, AA228979, AL040717, AL196532, AL821938, R83068, AW341955, AA344768, AL040763, R34070, AL048479, AL284543, H79586, AA602906, AL042667, AL042670, AA302978, AL254770, AA633424, AL251944, AL300054, AL251034, AL251203, AL309059, AL251284, AL041240, T40629, AA376358, AW271071, F23338, R51582, AA613761, AL250552, R32162, AW080333, AL962030, R70883, AA358178, AA468975, AA053463, AL151503, AL015948, AL084173, AL962030, R70883, AA358178, AA468975, AA053463, AL151503, AL015948, F34506, AL119182, F24164, AA659425, AL337612, AV080118, R70884, T74524, AA483606, AW082104, AA622801, AL041375, AA347969, AA570740, T51874, AA568204, T93105, H04078, F34151, AA078384, AL249853, AL042373, AA583547, T60316, AA018923, AA012829, AW084967, C06210, AA568949, AW149241, AA503142, AL983447, AL354602, W45215, AA846978, F31634, H43183, R66537, AL925869, AL049563, AC005859, AC004982, AL050341, AL023803, AC005017, AC010582, AP000087, AC006544, AL035686, Z99716, AL1110802, AC007221, AC005747, AC004849, AC010206, AL022068, Z94056, AC002350, AC007114, AL031602, AC004801, AC005726, AC006312, AC004099, AC007563, Z97054, AL132712, AC004067, AC005920, AL133269, AL022720, AC008072, AF067844, AC004988, AC005538, Z82206, AC002302, AC008498, AL031681, AC003992, AL121923, AC003085, AC006004, AC005191, AL049540, AL049838, AC008008, AC007917, Z95152, AL022329,
HMMAQ15	3153	65966	1 - 600	15 - 614	
HMMAQ35	3154	707273	1 - 444	15 - 458	
HMMA35	3155	919558	1 - 275	15 - 289	

					<p>AL021368, AC005669, AL109984, AL022330, AL031671, AL133246, AL133396, AC005035, AC004032, US0871, AC004081, AL031289, AP000497, AL133243, U91321, Z81365, AL020997, Z95115, AC002366, AL096765, AL034549, Z93023, AL021938, AL009179, AC003001, AL049729, AC006116, AC006543, AC005094, AL034420, AF178030, AL133353, AC008657, AL022162, AC003042, AL024498, AL117354, AL132857, AL079333, AC004843, AC008119, AC005277, AC002367, I34294, AC005280, AC005821, AC007182, AC003046, AL035684, Z53847, AC007387, AC003689, AL031667, AC005082, Z98941, AC004134, Z84480, AC004787, U73023, AC009025, AC007687, AL049779, AC004757, AC005527, Z80232, AC006582, AC019014, AL035423, AC005962, AC004583, AC004894, AC007743, AL031177, AL031121, AC009275, Z84474, AC005231, AC007200, AL031291, U93337, AC009501, AC007358, AF13043, AC006023, AC004831, AL021781, AC005182, AP000090, AC002066, AP000355, AC003684, AC004842, Z97053, AL022320, AC005529, AC007938, AC004217, AC007510, AC003664, AC004500, AC007240, AL109956, AF196779, AL049766, AC003037, AC004485, AC006387, AL049869, AC005908, AC008150, D87675, AP000152, AC004765, AP000210, AP000132, AP000248, AL133445, AC004816, AC005544, Z97832, U52112, AC006305, AC005294, AC005532, AL136168, AC006035, AC007193, AC004821, AC004884, AL049569, Z68324, U85195, AF002223, AC006088, AC005703, Z78660, AE000658, AC007253, AC002316, AL121820, AC005696, AL049643, AC006137, AL035563, U82828, AF049895, Z74581, AC004042, AP000008, AP000704, AC004983, AL031584, AL031983, AC003104, AL021546, AC005187, AL096678, AL133355, AP000106, AP000038, AC006501, AL035413, AL121825, AC004797, AC003991, AC006042, AL049830, AC005214, AC005740, AC012384, AC006566, AC000035, and AC006115.</p> <p>AA721645, AA303054, AA806653, T94405, AA363078, R02532, T89133, AA729284, AA742815, AW069227, AC004975, AC003665, AF111167, AP000558, AC007382, AL031276, AC009263, AC009516, AC005233, AL022312, AC003070, AL031311, AC004000, L78810, AC004895, AC005017, AF001550, AL049832, AC002470, AL023803, AC005821, AL023577, AC007021, AC003041, AL109798, AC005200, AL021407, AL035086, AC004834, AF028308, Z85986, AL033375, AL035413, AC004257, AC005578, AC005773, AC004955, AC008044, AC004495, AC006445, AC005521, Y12851, AC005808, AL110122, AL239325, D86566, AL031846, AC007030, AC004019, and AC002991.</p> <p>AA889566, AA935287, AL049232, and Z93016.</p>
HMMAS88	3156	728019	1 - 609	15 - 623	
HMMAS91	3157	496192	1 - 455	15 - 469	
HMMAT17	3158	662705	1 - 448	15 - 462	
HMMAT26	3159	681416	1 - 474	15 - 488	

HMMAT78 HMMAUT0	3160 3161	73239 964281	1 - 352 1 - 434	15 - 366 15 - 448	AC004019, AC006441, and AC005089.
					AW028950, F01222, AA878492, AA501867, AA773128, AT798041, AA342238, AA552724, AL249688, AA858712, AA580572, AE338236, AA219024, AA303054, AA533660, R09533, AE587467, AA429942, AA666215, AT791659, AT079491, T69879, AL136771, AA618035, AL209073, T71936, AA693484, AA767966, AD71762, AA262908, AA436140, AL038304, AT754567, AL569100, AV192599, AT755214, AA508809, AA481811, AL086307, AA583666, AA646248, AA772016, AA410771, N28624, T56025, AA533054, CL6638, AT45373, AA557790, AT734105, AA502991, AW339422, AA302978, AA852025, AA744401, AA617272, AT721560, H78195, AA219069, N67313, AA127222, AA471467, AA668387, AA487569, AA632765, AW007424, AA374240, AW242031, AA113126, AA584484, H56633, AL669392, AA229490, AL583448, AA228824, N70449, AA972523, AL860423, N63149, AA502568, AA385775, AA573000, AL819391, AA827383, AA157876, AA947265, AA074143, AA371410, AL252010, AL222880, AA902818, AA642823, AL249365, AA343523, AA714073, AW340905, AW023111, AA654482, AA126814, AA524800, AW07498, AA773881, AL929410, AA75188, AT753672, AA595554, AA503008, H60912, AL869786, N59744, AL762528, AT750950, W04464, AA598605, AA665181, AA046906, AA228979, AA329823, AL459879, AA773171, AA206707, H90878, AL019793, AL267450, AA659048, AA523703, T74259, AC005859, AF000194, AL133448, AP006696, AC005180, AL109798, AP000557, AC003692, AC004887, AL031587, AC000353, AC002375, AF129736, AL133163, AL034420, AC006064, AC005694, AC003108, AL008631, AL050321, AB016897, AC004084, AL022323, AC004492, AP000689, AL035086, AC005513, AC005412, AL109628, Z83826, AF205588, AC002310, AL032821, AC007671, AC005829, AC004466, AL022326, AC005231, AP000704, Z83840, AC007546, AC006014, AC007225, Z98946, AB020868, AC004019, AC006241, AL009179, AC006480, AC004491, AP000555, AC007688, AC005899, AC005399, AC004125, AL035249, AL049776, Z95114, AF064861, AL031287, AC005921, AP000510, AL035685, U95740, AC004531, AF003626, AL096263, AC005562, AC0009316, AC005015, AL003147, AC006948, AC005488, US2112, AL022316, AP000247, AC005088, AC005081, AC005841, U91323, AC007386, AL031666, AC002316, AL121658, AB023048, AD000092, AC004811, AC004216, AC003982, AL080243, AF053356, AC002301, AC006049, AC005102, AL133312, AC002120, AC002365, AP000514, AC004522, AC005755, Z86090, AF030453, AC005220, AC006571, AC006449, AC008044, Z98050, AC005216, AP000466, AL035415, AF038458, AL135744, AC005837, AL251973, AC005071, AL034418, AC002563, AC005225, AC004797, AC004626, AP000692, AC007934, AC003086, AC006966, AC005519, AL024508, AC004228, AL109738, AL121754, AL022238, Z95152, AL031984, L78810, AC007687, AC005031, AC006006, AB003151, AC006023, AC007277, AL031123, AC004929, AC004551, AL096791, AL117356, AC006285, U80017, AL008716,

				AL023513, AC007263, AC004234, AC005902, AC007226, AL031277, Z98304, AC005291, AC006487, AC006115, Z95115, AC005189, AC006312, AP006688, AC008040, AC004596, AC005484, AC016025, AC005058, AL121652, AL049779, AL022162, AC004967, AL050325, AC005082, AF165926, AC004080, AC016027, AC005050, AL031290, AC006581, AC004816, AC004884, AF134471, AC016830, AL034554, AC006946, AF111167, AC007055, AL049869, AC004985, AL049553, AC007488, Z97053, AB020864, AC000025, AC002059, AC008372, AC006130, AC004966, AC007358, AC004000, AC006430, AL049569, AP000212, AP000134, U95739, AC003690, AL122023, AC005233, AC002425, AC005914, AP002558, AF111169, AP000246, Z97054, AP000167, AC004217, Z84469, AB036572, U91328, AC004820, AC005725, AL034548, AL133243, AL035660, AL022336, AP000962, AC005913, AL022318, AC007676, AL133246, AL049692, AL035454, AL020995, AC008115, AC006021, AC006406, AP000030, AL1331659, AC004878, and AC006379.
				AC003042.
				AC000118.
			15 - 403	
			15 - 430	
			15 - 267	
			15 - 396	
			15 - 444	
			15 - 515	AA614263, AW195898, AW080413, AL00810, AA525318, AA767276, AA345400, AL042316, AA426571, AL039672, F33785, R02571, AL032037, AL046094, AA554430, AA830936, AA528234, AA644545, F18098, H58588, U91321, AC005781, AC002310, AL022334, AC004834, AC004762, AC005265, AC008044, AF053356, Z83849, AF118808, AC007327, AC005620, AC004143, AC004878, AC005034, AC004084, AC008009, AL024509, AC002287, AC006043, U52112, AC006275, AL031864, AL096791, AC005089, AL034420, AC007057, AC006449, AC005899, Z82178, AL033403, AC002390, AC006238, AC005666, AC003010, AL080243, AC006450, AC004787, AC002302, AT229041, Z99774, AC002420, AL034417, AL009174, AL049780, AC006530, AC002390, AC005874, and AF134471.
			15 - 418	
			15 - 363	
			15 - 352	
			15 - 365	
			15 - 404	AL049003, and AL049776.
			15 - 473	
			15 - 457	AC004963, and U95740.
			15 - 471	
			15 - 406	AA635985, AL78817, AA628245, T60029, T59956, and AC004985.
			15 - 513	H64058, H51675, AA424943, AA424944, AA873400, and H64008.

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				AW151657, AA782334, and AC005295.
HMMBR77	3187	835942	1 - 460	15 - 474
HMMBR91	3188	757047	1 - 465	15 - 479
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HMM/BU78	3195	773426	1 - 696	W02201, H78487, and H78389.
HMM/BU77	3196	662684	1 - 463	AF192272, AL121235, A1954248, AAO13823, A1698342, AA654781, A1866487, AA730798, A1471887, W24462, A1470646, A1468899, AA679936, AL138455, A1312309, AA478355, A1732120, AW085780, AA680243, A1049508, AW089101, AW003867, A1088768, AA533333, AA279365, A1366993, AAO12964, T03217, A1950983, AA640410, AA640430, A1754336, AW023302, A1611895, A0888727, W275498, AA515644, AA746719, A1358384, AL041146, A1383396, A1431303, T61978, A1753929, A119649, A8833896, A8833875, A1791913, A1792133, A1821714, A1821044, AAO81462, A8876445, A1037574, A1099939, AL046519, A1816141, A1079637, AL040921, A228349, A1036413, W022065, AL044441, A1042311, A8847952, A1729697, A1034853, A1036037, AA601876, AA483256, AA582549, AW263415, A1873852, AW380254, A1633479, A1732151, A1828710, A1774059, A1457397, A1513400, A1121207, AL046457, AA493136, A1754567, A1754105, A1755214, A4570602, AA330047, A1124610, AL134519, A1680562, A1886654, A1314972, N99489, T09124, A1609464, AA478866, AW022406, A1754253, AA588001, A3327868, AH99451, A1691091, A1524515, A1635217, AF034176, N49368, T60156, A1572924, A091323, A1630176, A119306, AA503039, A1638452, R17793, AA516058, A16168383, H72530, W20344, F05324, A1862939, AA493708, AW028429, C16438, AA916171, AA3358515, R94326, T73699, W52505, A1821785, A118991, AA537385, M77938, AL079389, AL042635, A1751216, A1446682, AW410354, AA478867, AA551552,

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HMMBV53	3197	727572	1 - 201	15 - 215	
HMMBV71	3198	490078	1 - 369	15 - 383	T73734.
HMMBX63	3199	729268	1 - 313	15 - 327	AA905066, AA767350, AL696646, H71659, Z98036, AL109758, AC005914, AF111168, AC002425, AC005072, and AC004551.
HMMCB291	3200	753799	1 - 411	15 - 425	AC005877.
HMMCA43	3201	715085	1 - 434	15 - 448	
HMMC867	3202	735293	1 - 755	15 - 769	R10827, AA165653, AA678092, AA165550, and Z95152.
HMMC009	3203	625368	1 - 468	15 - 482	W27527.

HMMCD21	3204	670651	1 - 182	15 - 196	AF067844, and AF143313.
HMMCE16	3205	577388	1 - 283	15 - 297	HT1992, AA508364, AA508371, and AF174714.
HMMCE26	3206	935148	1 - 522	15 - 536	AA565911, AW238341, AP04445, AF143663, AA192839, AA209436, AF109180, AF1251944, AF1046818, AW073950, AF16409, AW390601, T05617, AF19199, AF445557, AF337805, N54397, AF17904, AF337978, AF269639, AF299351, C06329, AF678616, H61871, AF080732, AF1619994, AF054090, AF566084, AA502101, AF364315, AF582746, AF373645, H68343, AF192697, AF23919, AF633386, AF240661, R89560, H53085, AF057719, AF372799, AF191291, AF191469, AF249365, AF567391, AF1732514, AF527109, AF732243, AF658934, AF054053, AF298079, AF610255, AF284543, AF825784, AF138252, AF114131, AF042373, AF254770, AF783820, AF042667, AF042670, AF586433, W96277, AF081770, AF603432, AF171161, AF190484, AF251034, N64437, Z85987, AF236701, AF005520, AF031685, AF000085, AF006995, AF1034421, AF006241, AF002101, AF005256, AF007363, AF007263, AF003070, AF007114, AF078581, AF031657, AF004491, AF004985, AF007055, AF004526, AF004991, AF002470, AF005324, AF006023, AF004686, AF004687, AF080243, AF053356, AF006692, AF26434, U07563, AF005730, AF002351, Z98752, AF022311, AF000359, AF134726, AF031651, AF000350, AF004834, AF034549, AF004383, AF003030, Z97353, AF004583, AF005914, AF006512, AF004859, AF006441, AF031681, AF004796, Z85986, AF035405, AF006251, AF031295, AF002996, AF002228, AF035658, AF000088, Z98050, AF005563, AF004531, AF004858, AF006312, AF005535, AF005920, AF000140, AF002369, AF109907, AF002350, AF021918, AF196989, AF005844, AF165926, AF005993, AF005089, AF002395, AF005916, AF005399, AF005696, AF217403, AF004131, AF005409, AF109827, AF005067, AF251973, AF001549, AF3727, AF034418, AF030308, AF000379, AF005911, AF000126, AF000204, AF005312, AF001552, AF096712, AF004019, AF005049, AF022322, U52112, AF006273, AF005212, AF035086, AF196779, AF111163, AF002504, AF006121, AF000082, L78810, AF031229, AF005837, AF004150, AF006111, AF006277, AF031588, AF006501, AF1323, AF003029, AF005071, AF049643, AF031803, AF002407, AF031848, AF007486, AF005037, AF007225, AF049766, AF049591, AF000244, AF031678, AF034420, AF004884, AF133445, AF021878, AF109758, AF049856, AF003147, AF006317, U85195, AF049653, AF005206, AF005003, AF079301, AF004423, Z99716, AF005231, AF002994, AF031597, AF049569, D84401, AF000704, AF000638, AF008734, AF005211, AF133163, AF010206, AF004884, AF005328, AF091512, AF031291, AF002426, AF031672, AF000025, AF005203, M29929, Z68323, AF002511, AF031455, AF005924, AF031846, AF022326, AF067844, AF045553, AF006001, AF004953, AF003687, AF000070, AF005667, AF006064, AF005736, U95740, AF034141, AF007388, AF005081, AF006360, AF011625, AF020369, AF133269, AF009501, AF031123, AF133245, AF004814, AF096701, AF005899, AF207550, AF005529, AF006511, Z98950, Z95115, D87675, AF009405, AF001227, U82828, AF000510, Z95152, AF005005,

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HMCMCI67	3211	587819	1 - 479	15 - 493	
HMCMCI83	3212	855918	1 - 425	15 - 439	AC002302.
HMCMCI93	3213	708060	1 - 661	15 - 675	
HMCMCK81	3214	666792	1 - 346	15 - 360	AC007165.
HMCMCN36	3215	919484	1 - 463	15 - 477	
HMOAC95	3216	677110	1 - 206	15 - 220	
HMPAA21	3217	670114	1 - 546	15 - 560	N59555, AA362113, and AA362136.
HMPAA62	3218	754152	1 - 270	15 - 284	AA362224.
HMPAP52	3219	709621	1 - 264	15 - 278	

HMPBA34	3220	705509	1 - 450	15 - 464	AA362767, AA362266, AF017104, and AC016831.
HMPBB11	3221	855911	1 - 318	15 - 332	AA362334.
HMPBT49	3222	723299	1 - 324	15 - 338	
HMPTE27	3223	684607	1 - 394	15 - 408	
HMPTE84	3224	954383	1 - 491	15 - 505	AC002112.
HMPTE69	3225	932799	1 - 355	15 - 369	
HMQAB40	3226	712805	1 - 485	15 - 499	AI523941, AA055449, AA232904, AA233033, and AA055448.
HMQAG45	3227	723493	1 - 347	15 - 361	
HMQAL93	3228	684917	1 - 307	15 - 321	
HMQAO34	3229	706341	1 - 250	15 - 264	
HMQAP31	3230	825480	1 - 208	15 - 222	
HMQAS25	3231	923515	1 - 469	15 - 483	AW044231, and AC003681.
HMQAU20	3232	384780	1 - 359	15 - 373	
HMQAX65	3233	856318	1 - 295	15 - 309	T87899.
HMQBD30	3234	714031	1 - 352	15 - 366	AI021453.
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HMQBH12	3235	825460	1-250	15-264	A1800901, A1651852, A1654079, A1500417, and A1008730.
HMQBLL13	3236	723212	1-397	15-411	
HMQBLL17	3237	664904	1-266	15-280	
HMQBLL54	3238	708075	1-292	15-306	AA809189, AC005280, A110150, J03818, and AC002115.
HMQBMM27	3239	855902	1-265	15-279	A1373509, AW015352, AW131241, and A1500443.
HMQBMM59	3240	708073	1-332	15-346	
HMQBNN41	3241	683723	1-249	15-263	AC005994.
HMQB017	3242	720569	1-306	15-320	
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HMQB026	3244	684887	1-297	15-311	W79802, and AA773227.
HMQBPF54	3245	855900	1-321	15-335	
HMQBTF65	3246	708065	1-294	15-308	
HMQB096	3247	765162	1-404	15-418	A1887232, and T78614.
					AA453179, R71855, AA043907, F07759, AW248202, AA302385, AL047640, AA284122, H18360, H19959, H20698, H21242, AA434198, H46841, AA292979, AW247172, D52938, AA131344, AA203288, Z45125, H85906, AA017593, R81429, AW381812, AW392072, T19067, R55922, AA306741, AW381820, AW381788, T32133, R48687, W93644, D56251, AA308717, R59408, AA017424, R61099, H08032, R19873, AA321261, AA069353, AA410846, AA843927, W93904, AA984067, AA477522, AA523404, AA582827, A1885457, AA861765, and AC005067.
HMQBWB05	3248	932509	1-146	15-160	
HMQBWB76	3249	954587	1-204	15-218	AA381112, T29768, and AA381110.
HMQBXX07	3250	954058	1-255	15-269	
HMQBXX35	3251	707280	1-353	15-367	
HMQBXX74	3252	932510	1-122	15-136	
HMQBXY10	3253	968348	1-404	15-418	
HMQBXY34	3254	706338	1-119	15-133	
HMOCCK67	3255	740625	1-304	15-318	
HMOCCK09	3256	384771	1-192	15-206	
HMOCQ077	3257	839604	1-359	15-373	A1910103.
HMOCQV51	3258	725828	1-346	15-360	
HMQDA84	3259	783174	1-243	15-257	
HMQDC34	3260	855890	1-335	15-349	N99626.



HMQDC96	3261	765810	1 - 298	15 - 312	Z97989.
HMQDD41	3262	575536	1 - 347	15 - 361	
HMQDE85	3263	963366	1 - 333	15 - 347	
HMQDN16	3264	712388	1 - 343	15 - 357	AC005576, AF117947, and U77631.
HMQDN77	3265	772436	1 - 406	15 - 420	
HMQDN84	3266	783176	1 - 419	15 - 433	AA630827.
HMQDD19	3267	940694	1 - 155	15 - 169	
HMRAD49	3268	868185	1 - 398	15 - 412	
HMRAD74	3269	765975	1 - 560	15 - 574	
HMSAC03	3270	960949	1 - 401	15 - 415	
HMSAH89	3271	935429	1 - 470	15 - 484	

				AF165176, AC004638, AC005177, AL022345, AL022165, AC007386, AC006449, AP000018, AP000160, U73669, AC000092, AC005581, AC003109, Z97630, AL049610, AC005905, AL022397, AL034379, AC002039, AL023803, AC005041, AF029308, AC005003, AP0000339, AC003066, AP000217, AC006515, AC005225, AC004185, Z93848, AP000152, AP000011, AP000509, D87009, AL109839, AL031447, Z97056, AL121652, D84394, AC006271, AP0000962, AC005037, Z99943, AC002553, Z98884, AL022239, Z82184, AC005513, AL121825, AC004985, AL034402, AC004594, AC005361, Z68164, AC004257, AC000015, AL008725, AC003077, AP000502, AC006597, Z95113, AF007550, AL021707, AL121877, AF134726, L47234, AC005342, AC007773, AL031729, AC007695, AP001059, and AP001058.
HMSAI08	3272	960482	1 - 372	15 - 386
HMSAI44	3273	715726	1 - 363	15 - 377
HMSA046	3274	720686	1 - 408	15 - 422
HMSAP87	3275	383902	1 - 341	15 - 355
HMSAO64	3276	747120	1 - 374	15 - 388
HMSA062	3277	754156	1 - 373	15 - 387
HMSAX08	3278	960446	1 - 448	15 - 462
HMSAX13	3279	961032	1 - 352	15 - 366
HMSAX31	3280	698439	1 - 365	15 - 379
HMSAX32	3281	702992	1 - 345	15 - 359
HMSAX33	3282	727443	1 - 451	15 - 465
HMSAX85	3283	953708	1 - 317	15 - 331
HMSAZ07	3284	855878	1 - 186	15 - 200
HMSBB19	3285	707489	1 - 560	15 - 574
HMSBB44	3286	715738	1 - 339	15 - 353
HMSBF59	3287	722005	1 - 416	15 - 430
HMSBF84	3288	739001	1 - 235	15 - 249
HMSBH79	3289	683595	1 - 296	15 - 310
HMSBH72	3290	925288	1 - 331	15 - 345
HMSBM43	3291	510964	1 - 905	15 - 619
				AA577706, AT733856, AA315052, AA491941, AA904275, H67155, AA657835, AA664135, AI061313, AL079734, H79591, T74524, T46990, R76686, AA632744, AW271904, AL042667, AL042670, AW023111, AW069412, AW104161, AA071334, H60813, AI7380617, AW265688, AA525423, H07953, AA641651, AT791185, AI056177, AA410788, AT754170, AA555232, AI541154, AA833896, AA833875, N29105, AL560866, N66065, AA595770, AL569401, AA502149, AW265614, AL134330, AL031005, AC007376, AC006071, Z97054, AC005722, and AC005602.
				F24792, H77666, AA594145, AC005971, AC004491, AC003663, AC019014, AL133245, Z95703, and AC005602.
				AI910889, AI524744, AI347447, R72293, AA765015, AA736789, AA808343, AA865106, AW182983, R71382, R72338, and R70163.
				AB033020.
				AC004687.
				AL035073, and AC007446.

					AC007182, AC006312, L78833, AL050332, AL033397, U91323, AC005066, AC004217, AL031282, Z93930, AL031588, AC004812, AF117829, AC007349, AC004771, AC005839, Z85986, AL121603, AP000251, AC002565, AC008072, AC005914, AP000212, AP000134, AP000030, AL031447, AC004895, AF111168, AC007537, AC007308, AC004841, AC005527, AL096703, AC002550, AC004067, AL035249, AC006538, AL049611, AC007536, AC002302, AP000538, AL031228, AL096791, AL136295, AL109914, AL022165, AC007664, Z84466, AC004797, AL024507, AP000689, AC007052, AC008018, AC005081, AP000043, AP000111, AC004655, AC007421, AL022329, Z84487, Z84469, U95742, AL031281, AC005529, AC002425, AF109907, AC004526, AC005482, AL031657, AL022721, AP000694, AC005412, AC005972, Z82244, AC007216, AC008154, AC006501, AL121658, Z98304, AB023030, AC006121, AC004491, AC006091, AC005989, AP000152, AC002477, AC002400, AP000140, AC005338, AC006006, AP000511, AC005670, U91318, Z73358, AC007637, AC007055, AL008582, AL035086, Z93023, AC016027, AC005082, AL080243, AC004253, AC0016830, AC002472, AF031078, AP000011, AC004874, AP000088, AF030876, AC005901, AC009516, AF129756, AL109984, AC004821, AL133244, AP000353, AF196779, Z85996, AL050341, AC004887, AC006531, AC004805, U95740, AC003983, AP000116, AC000025, AC004854, AL080317, AC000521, AL133243, AC007546, AL023575, AL022327, AC004019, AL031311, AC005088, AL139054, AC008009, AC006277, AL049779, Z82176, AL049694, AF196909, AC000900, AL031284, AL031666, AC007684, AC007298, AC005037, AC003108, AC005921, AP000114, Z92546, AL034421, AC005288, Z83846, AC005841, AC006649, AF091512, AL021918, AL133246, AC006509, AC004656, AL008715, AC007371, AL021920, AP000512, AC009405, AP000514, AF024534, AC016025, AL049832, AC005740, AL031733, AC000571, AL121595, AC006946, Z95152, AC006014, AC007057, AP001053, AC002070, Z98751, AC005971, AL031055, AP000240, AC005209, AL031120, AC006011, AC005488, AL121769, AP000008, U47924, AC005880, AF064861, Z83844, U96409, AP000552, AL035458, AL031683, AC004590, AL110502, AL031681, AC004955, AC004816, AC002347, AC009248, AC004622, AC005306, AC006236, AL003147, AC007938, AC007384, AC004148, Z98884, AC006120, AC007406, and AC005913.
HMSBM481	3292	383978	1 - 339	15 - 353	
HMSBN71	3293	766408	1 - 227	15 - 241	
HMSBO55	3294	715684	1 - 135	15 - 149	AL579937, N47104, AA805339, AA768366, AL078743, AC005774, and Z93019.
HMSBP46	3295	719425	1 - 127	15 - 141	
HMSBP80	3296	855871	1 - 373	15 - 387	
HMSBO93	3297	745862	1 - 406	15 - 420	
HMSBS51	3298	708662	1 - 348	15 - 362	
HMSBS63	3299	926833	1 - 440	15 - 454	
HMSBS86	3300	785804	1 - 533	15 - 547	AL121998, D83253, Z70689, and Z97054.

HMSBU22	3301	677327	1 - 230	15 - 244	
HMSBU68	3302	709231	1 - 295	15 - 309	AW117257.
HMSBV28	3303	970579	1 - 429	15 - 443	
HMSBX38	3304	761392	1 - 467	15 - 481	R94422.
HMSBX59	3305	558203	1 - 291	15 - 305	AI621141, AA640155, AA569180, AA376315, AI922061, AA664366, AI052560, AA501775, AA230232, AA055576, AA258511, AA487808, AI940701, AI820994, AA593381, AI082078, AW238615, TG3028, AA641592, AA601152, AI720812, D59168, T62761, AI132952, T85549, T47477, H17541, N62150, AA353087, R09080, AB002068, AA780549, AA584059, AA225638, N32456, H47464, TG2126, H13261, AI117339, AF205588, AI022345, U82828, AI049710, AC005386, AC005018, AF049895, AP000146, AI022576, AC007488, AI121877, AC008929, AC007380, AC004075, AI023581, AC002412, Z82212, AC005297, AC004677, AC005341, AI096827, Z99571, AC004855, AC007567, AC004158, AI022310, Z93019, AC002429, AF172277, AI110505, Z82211, AF003529, AC016046, AC007514, Z83745, AC006481, AI136297, AI022394, U82696, AI117351, AC005076, AI030996, AC000114, AI049844, AI050339, Z92844, AI008772, AC006462, AI049589, AC004470, AC003106, AI080248, U69730, AC002070, AC008378, Z71187, AI022154, AC008169, AC004842, Z98255, AC006946, AC006548, AC009802, AI049743, AC006313, AI050309, AP000083, AC004029, AP000692, AC005378, AC002564, Z74477, AC002463, AC004908, AC002449, AI049778, AC004083, AC004049, AI022101, AI121782, AI021654, AC002454, AI133247, AF070718, AI009047, AC006152, AC011198, AC006070, AC007317, AP000476, AC004047, U66059, AC007243, AC007065, AI109628, AC004161, AI079334, AC000056, AC004451, AC005064, AC004823, Z77249, U77289, AI090928, AC003099, AC003658, AI034370, AC006979, L11910, AI080461, AI031665, AI035252, Z95124, AI080239, AC005201, AI031286, AI031652, AI021157, Z82205, AC000119, AI133500, AI049838, AC006043, AI031671, AI078588, AI022157, Z82205, AC002524, AC007286, AC005273, AC007032, AC007533, AC007966, AI049834, AC006203, AC006356, U96409, AP000460, AC009308, AC016831, AC005352, AI049696, AC007159, AC006427, AC006840, Z70274, Z71182, Z82210, AC005588, AI023875, AI049734, AC007239, AI035563, AI121823, AC005873, AC006249, AC005034, AC002994, Z82215, AI022150, AI031114, Z69649, AF109076, AC004613, AC004894, AC005516, AC003037, AC006040, AI049874, AC005019, AC006952, AI035698, AI739329, AC006455, AC004067, AP000457, AC005050, AC005019, AC006952, AI035698, AI739329, AC005498, AC002040, AI136520, AC003973, AC004384, AC005593, AC003676, AC002488, AP000547, AI035258, AI035688, AI121871, AC004615, AI034410, AC005739, AI050334, AC005900, AC004617, AI022401, AI096803, AB014078, AC006139, AC007007, AC004959, AC000055, AP000514, AI049634, AI031663, AI033521, AI049557, and AI109941.
HMSBV69	3306	866097	1 - 757	15 - 771	AA699358, R94584, and AF093097.
HMSCA33	3307	702821	1 - 413	15 - 427	H16746, AI989391, AI651717, AI080151, AA573388, AA927298, AA830295, AA805889,

				ZAI058, AI864771, and AA729846.
			15 - 205	
HMSCB10	3308	968514	1 - 191	
HMSCD14	3309	924890	1 - 145	
HMSCD15	3310	918133	1 - 1223	
			15 - 1237	
				AA828277, AI707568, AI333720, W33154, AI880870, AA848014, AA864599, N50622, AA087770, AW270419, AA761244, AA262754, AA779760, AIJ80826, AA407353, W37119, AA206843, Z42584, AA206842, and AB011126.
				AB017652.
HMSCD45	3311	707281	1 - 316	
			15 - 330	
HMSCB07	3312	954242	1 - 430	
			15 - 444	
HMSCB37	3313	524245	1 - 344	
			15 - 358	
				AW276877, AI310873, AA359994, AA074342, AI345366, AW190781, AA243530, AA346466, W438765, AA811208, AB090706, AW082470, AW274078, AA837708, AA527602, AA599558, AI135262, N58329, AA804995, MT7893, N71033, AA630854, AA527727, AA908331, N26617, AA373205, AA545235, N72307, AA630145, AA601630, AA654661, AI750865, AI134278, AA804466, AI628307, AI679540, AA474740, AI6779978, AI675933, AI540851, AA5468223, AI031277, AC007327, AF196972, AC003009, AI022313, AC006023, AI008725, AI031846, Z93244, AC006312, AP000513, AI022316, AC007546, AI139054, AC006537, AI133245, AI080243, AI022143, AI031120, AC004598, AC006344, AI034423, Z84486, AC005821, AC005134, AI022336, AC005668, AI023284, AC005546, AI009172, AC005619, AC009379, U95900, AC004821, U08988, AC004913, AP000500, AI0109798, AI022476, AI035251, D86998, AC006130, AI020995, AC005042, AC007011, AP000553, AI031681, AC005539, AC009263, AI023575, AI049759, AI035494, AI035090, AC003077, AF165176, U95740, AF008191, Z73359, AC005971, U85195, AI031659, AC004185, AC006047, AC007707, AI023807, AC005179, AF045555, AE000658, AC005175, AC002044, AC007727, AC002312, AI031597, AC009247, AF023051, AC006571, AB023049, AC008101, AI117330, AI121825, AC002563, AI034040, AF139813, AC002288, AC004743, AC006305, AP000030, U91326, AI132708, AC005399, AC004858, AC004152, AC002544, AC002126, AP001053, AC010205, U66098, AB014540, AI022313, AC005081, AC005778, AI049757, Z95115, AC000094, AC005695, AC004500, AF106564, AC005777, AC005968, AC005933, AP000539, Z92927, AC007192, AC002316, AI050330, AP000512, AC004234, AC006211, AI023803, AC004583, AC004526, AC001231, AC004885, Z95116, AC006466, AC004491, AC006450, AC005537, AC016025, AC004131, AP000295, AC004106, AC007845, AC002330, AI031985, AI015758, M89651, AF181449, AC005874, AF134471, AC005089, AP000501, Z99127, AC004933, AC007227, AI031290, AC002365, AI096701, AI035405, AC002996, AI034420, X87579, AC004662, AI050307, AP000098, AC005800, AC005379, AC007294, AI031273, AC005342, AI024498, D94394, and AC004659.
				AI523579.
			15 - 775	
HMSCF41	3314	951821	1 - 761	
HMSCF54	3315	731011	1 - 354	
HMSCF58	3316	747250	1 - 73	
			15 - 87	

HMSCD26	3317	530239	1 - 651	15 - 665	AP000334, and AP000173.
HMSCD06	3318	960601	1 - 376	15 - 390	AI610751, AI096706, AC005256, AC005214, AC005145, AI133448, AC005354, AP000053, AC007435, AC005321, AI096774, AC002477, AC005682, AC002314, AI049843, AC002367, Z95152, and AI034369.
HMSSCK17	3319	711703	1 - 484	15 - 498	Z82195, AF067787, AF067788, AC004257, and AC006511.
HMSSCK38	3320	967576	1 - 680	15 - 664	
HMSSCL01	3321	921754	1 - 352	15 - 366	
HMSSCM10	3322	926836	1 - 802	15 - 816	AA527731, AI821508, AA532420, and NS2655.
HMSSCM95	3323	884019	1 - 295	15 - 309	AC004765.
HMSSCO18	3324	917009	1 - 439	15 - 453	AI121748.
HMSSCO39	3325	709592	1 - 284	15 - 298	AP004096.
HMSSCO60	3326	739685	1 - 384	15 - 398	T93243, and AI033518.
HMSSCO70	3327	879436	1 - 356	15 - 370	AA018611, AA634223, T99365, AA613954, AI537407, Z98051, AI022320, AI022476, AC006241, AP000556, AC005089, AC000039, AI049694, AC007421, AC004887, AP000045, AC005015, AC004099, AP000557, AP000501, AF004861, AC005081, AC002310, AF047825, AC004841, AC007686, AC007124, AC005971, AC005412, AP000113, AC004854, AI031657, AC005082, AC005527, U91321, AI035422, AC004815, AI050324, AC007868, AI133353, AF134726, AC004263, AC007541, AI022322, AC003982, AC007707, AC005837, AF196969, AI109984, AI121603, AF088219, AF053356, AC005220, AC005702, Z83844, AF038458, AI009247, AC005529, AC005520, U78027, AC006505, AF030876, AE000658, AF031075, AC006130, AC003030, AC005914, AP000300, AI033525, AC003108, AI229041, AI031846, AC004797, AC005666, AC005207, AP000502, AC006112, AI031273, and AC005409.
HMSSCR39	3328	601504	1 - 593	15 - 607	AI138265, AI040921, AI038705, AI877227, AI169478, AW406447, AI045205, AI042853, AA515829, AI801482, AW327868, AI281881, AI334443, AW029038, AW270270, AI024251, AI045053, AA610491, AI33164, AI045526, AI063720, AA210852, AI679782, AI046409, AA469451, AW162049, AW406755, F36273, AI929531, AI120687, AI811687, AI345675, AI358229, AI284640, AI683577, AW276817, AW193265, AW088202, AI044858, AW021583, AI431303, AI904894, C06327, AI962020, AI148277, AW088224, AA526787, AI049722, AA581903, AI339850, AI038785, AI708009, AI350211, C05755, AI608771, AI365988, AA649642, AW088058, AI613280, AW162489, AA587604, AI471534, AA178953, AI345681, AA192740, AI471543, AA468131, AI053672, AW438643, AW338086, AI287651, F79989, AI192631, AI341664, AI053790, AA134367, AI281903, AI254615, AI780967, AI918421, AI061334, AA661948, AI917271, AA613227, AI577906, AI110961, AI619997, AI918421, AI471481, AA521323, AI055547, AA601355, AI457397, AW238583, AI688846, AW440836, AA528810, AI270117, AA826303, AI343654, AA652057, C79026, AI745523, AI744995, AW072587, AI038474, AI198376, AW439558, AA501784, AI754658, AI335871, AI053606, AI298710, AA533725, AI589230, AA631507, AI279165, AI005388, AW265009, AI623720,

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HMSCB82	3329	806176	1 - 251	15 - 265
HMSCU35	3330	725513	1 - 676	15 - 690
HMSCV29	3331	703105	1 - 345	15 - 359

HMSCY91	3332	789306	1 - 420	15 - 434	
HMSCZ51	3333	724839	1 - 187	15 - 201	AI052366.
HMSDA03	3334	881563	1 - 508	15 - 522	
HMSDB74	3335	765933	1 - 327	15 - 341	
HMSDD80	3336	503967	1 - 910	15 - 924	N39672, R92235, AI248707, AA682815, AI119721, T91429, T91341, M85784, AA505009, AL045445, W90432, N30473, D79995, AC004495, and AC007151.
HMSDF01	3337	921672	1 - 303	15 - 317	
HMSDG77	3338	708078	1 - 340	15 - 354	AC004841, and AI031255.
HMSDK32	3339	416928	1 - 252	15 - 266	Z93784.
HMSDM29	3340	703075	1 - 176	15 - 190	H59931, H67432, AC005154, AC009784, AC003100, AC003034, AL022154, Z70280, AC003072, and AC006998.
HMSDP23	3341	583670	1 - 485	15 - 499	T41354, AC006123, and AC003107.
HMSDQ33	3342	702772	1 - 368	15 - 382	
HMSDR06	3343	954682	1 - 272	15 - 286	AL020995.
HMSDR35	3344	732443	1 - 335	15 - 349	
HMSDU43	3345	868183	1 - 303	15 - 317	AI243681, AA620742, AA906977, AA610037, and T04923.
HMSDU73	3346	753010	1 - 136	15 - 150	AF053755, and AF047033.
HMSDV49	3347	722194	1 - 343	15 - 357	
HMSDG37	3348	708656	1 - 202	15 - 216	Z41951, and AW295173.
HMSDX59	3349	708076	1 - 63	15 - 77	
HMSDX80	3350	718087	1 - 305	15 - 319	
HMSDQ23	3351	676369	1 - 394	15 - 408	
HMSDQ01	3352	921628	1 - 365	15 - 379	
HMSFH05	3353	932219	1 - 414	15 - 428	
HMSFH21	3354	671133	1 - 333	15 - 347	AL078463.
HMSFH24	3355	855826	1 - 259	15 - 273	
HMSFH27	3356	682204	1 - 339	15 - 353	
HMSFH29	3357	689857	1 - 229	15 - 243	
HMSFH31	3358	583757	1 - 866	15 - 880	AA180174, AA283603, AA304829, AA233827, and AF115509.
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HMSFH34	3359	706349	1 - 319	15 - 333	
HMSFH39	3360	705586	1 - 344	15 - 358	
HMSFH59	3361	739415	1 - 355	15 - 369	AA131265.



HMSFH73	3362	764554	1 - 187	15 - 201	
HMSFH79	3363	775318	1 - 206	15 - 220	
HMSFH83	3364	780301	1 - 520	15 - 534	
HMSFK32	3365	671136	1 - 227	15 - 241	
HMSFL10	3366	968061	1 - 331	15 - 345	AC008062.
HMSFL41	3367	934139	1 - 485	15 - 499	Z45769, and AC004752.
HMSFL49	3368	683406	1 - 287	15 - 301	
HMSFN48	3369	697991	1 - 473	15 - 487	
HMSFQ48	3370	721795	1 - 596	15 - 610	AW083053, A1457313, A1634187, AW069227, AA365893, AA303054, A1744830, A1753365, H68343, A1301475, A1926233, A1275183, R89081, AA747234, AA018231, AA904211, AC006449, AE000658, AC004854, Z83840, AC007227, AC005874, AF134471, AC005046, AC007666, AC005837, AL022312, AL022328, AC005089, AC005071, AC005377, AB023049, AC006011, AL049779, AC004232, AL024498, AC004593, AC004216, Z84469, U96629, AC006057, Z83822, AC005962, AC004659, AR036572, U91328, AL050307, AC006965, AC004876, AC007388, AL022476, AL121653, AL031594, AC007226, L076477, AL031311, AC005365, AL031589, AC005777, AC004893, AC003108, Z82215, AL023799, AC006285, AL031056, AC007337, AL034420, AC005921, AC005696, AC002400, AC004821, AL024507, AC005231, AP000692, AC005015, AC003982, AL117354, AL034402, Z74739, AC004000, Z93023, AC003957, AC006328, AC005971, AL033458, AC011311, AC002302, AC005102, AL033527, AC010197, AL049830, AC007637, AL031295, AC005529, AC004858, AC006160, AP000252, AC002527, Z83986, AL031985, AC006039, AC005081, AL096701, AC004099, AC005746, AC008044, AC005726, AC002126, Z95116, AL031427, Z83838, AL049759, AC002542, AC004019, Z85987, AL030318, AC002115, AP000501, AP000359, AP000212, AP001134, AC005037, AC002369, AL009181, Z99943, AL035405, AC000052, AC005583, AB023048, AC000039, Z98051, AC003010, L78833, AC004832, AL034376, AF001552, AC005399, AL009172, AL109952, U85195, AC005722, AL033587, AF111167, AC004491, AC004799, AC005740, AC005412, AC004148, Z84466, AL034429, AL049569, AC005914, AL096774, AL022313, AC007216, AL109798, AC006515, AL078638, Z97630, AC005933, AC005048, AC002549, AC006088, AF038458, AL031662, AL049776, AP001053, AP000088, AF024533, Z83826, AC005215, Z98752, Z83845, AF030453, Z82202, AC004033, AC000105, AL022336, AL031670, AP000553, AC005568, AC005520, Z92542, AC002997, AC000475, AC006480, Z93783, AC007011, AL023575, AL035410, AC004852, AL121769, AP000113, AC004531, AL080243, AC016831, AC006946, L78810, AL031595, AC005067, AL109758, AC005225, AF064861, and AC004106.
HMSFQ69	3371	657538	1 - 445	15 - 459	AW025161.
HMSFR29	3372	693440	1 - 151	15 - 165	AA552587, AC006296, and AC005841.
HMSFR69	3373	738588	1 - 255	15 - 269	AW081383, A1799195, A1680498, A1345677, A1358213, A1866770, A1357599, A1249946,

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HMSFR71	3374	760517	1 - 199	15 - 213
HMSFR92	3375	861344	1 - 567	15 - 581
HMSFS59	3376	759420	1 - 422	15 - 436
HMSFS69	3377	757687	1 - 336	15 - 350

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HMSFT23	3378	855812	1 - 399	15 - 413	
HMSFT52	3379	727302	1 - 489	15 - 503	R07137, AF161762, AB028943, AP000556, and AP000557.
HMSFT73	3380	761647	1 - 323	15 - 337	
HMSFW13	3381	917020	1 - 309	15 - 323	AL022165.
HMSFX01	3382	917021	1 - 496	15 - 510	H53374, and R99274.
HMSFX08	3383	959784	1 - 290	15 - 304	AA486810, R46108, R37254, R41969, R42367, H12053, AL044613, H16381, AA737346, AA223170, AA342459, H05040, A1923052, A1963688, AA676473, AA665525, AA653300, AA737106, A1279048, AL120481, AA551181, F04207, AA715850, AA485699, F10966, AL191391, H98096, AL243847, H66037, AA345064, AW088381, AA370455, A154293, AW247392, AA827231, AA651833, H12383, H51061, A1267269, AA991914, AA701804, F04926, AA773740, N74747, AA618080, H71863, AA055784, AL031595, AL117440, AB016104, AL009172, AC007971, AF129756, AC006539, Z98051, AC005531, AL109628, AC005229, AL121655, AC006059, AP000140, AL049589, AP000088, AC006536, AL022476, AC005102, AC006238, AL035895, D87675, AC006530, AC006211, AC007686, AB020864, AC007684, AP002257, AC005520, AC005899, Z69722, AL022238, AC016027, AC003379, AC004859, AC016830, AC002312, AC005730, AF205588, AC002991, AC003963, AC007226, AF111169, AC005488, AF196969, AL022323, AP000098, AL035659, AL035450, AF059675, AC003098, AC007386, AC002425, AC004408, AC002430, AC004381, AC007384, AP000111, AP000043, AC000085, AC007216, AL109656, U82828, AC006011, AF111168, AC005037, Z83838, AC005988, AL049545, AC006449, AC007537, AF126403, Z82976, AL035249, AC005800, AC004996, Z74617, AC006023, AC004000, AC006213, U29895, AL096701, AC002303, U95742, AC004797, A101930, AC004024, AC006527, AC007114, AC004590, AL035106, AC005074, AP000495, AC004815, AF165926, AC006487, AL034555, AF001550, AC005846, AL034419, AC000070, AL109865, AP000334, AC009178, AL117238, AC005940, AC002128, AC007024, Z93017, AC006014, AC005399, AC007308, Z94801, AC004991, AL049632, AF134726, AC006478, AC004778, AL080241, AC000159, AL049646, AC007546, AC006120, AC005529, Z83845, Z835986, AC005391, AC007406, Z82194, AC007227, AC005746, L27810, AC002320, Z82237, AL021366, AL049795, AC004787, AF059650, U91318, AL035718, AC000073, AC007199, AC006544, AC005082, AL009031, AC005409, AC000094, AC002326, AL035079, Z94161, AL031295, AC006323, AC004813, and Z94721.

HMSFY49	3384	574906	1 - 386	15 - 400
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HMSFY70	3385	757338	1 - 336	15 - 350	AA623002, H48636, AA774184, AA678499, AA158301, H86660, W85752, AA653964, TS5128, AA630925, AA601355, AL046457, AA483223, R843309, W16581, R92288, R84303, AL079935, R84296, R67365, AA602528, W80462, AA584749, AL0305766, AA568778, H02477, H86097, AS777906, AL613280, N70442, AW193432, AL002796, AA342914, AA643456, AA858197, AA644538, AA059472, AA678436, AL69172, AA136122, AA053551, AA810370, AA524838, AA906889, AL284640, AL270343, AA829405, AA824654, AA641989, AA824655, AL110444, M78177, N23653, H11124, H64778, F23279, AA490183, AA626678, T10560, AA533450, AA513972, AL865364, AA365347, AL610159, AA834755, H02877, AW074398, AA167643, AA63094, R83443, AL758582, AA34297, AA664535, F31204, AA280632, AL824562, AA664015, AA537957, AA743936, AA828836, AL133723, AA574110, AL688846, AA437161, AA158328, AW261871, AL270117, F18974, AL0949634, F25203, AW193265, AA515128, AA723017, AL350211, AL923140, AL567786, T48649, AL061334, AL246409, AL282907, F36273, AL889781, AL431303, AL608674, AA457639, AH71481, AA581342, AL814735, AA274510, H49061, Z98473, AW276827, AL375710, Z82214, AL078640, AL035495, AL024507, AC004931, AC000396, AC005250, AC006211, Z92844, AC004237, AC007227, AL109985, AL096701, AC006327, AP000115, AC003686, AL078621, AC007541, AC004227, AC004833, AL031848, AC009223, Z81369, AL079295, AL008629, AC004761, AP000556, AP000557, AL030423, AL117258, AC005696, AC005412, AC004685, AC005703, AC008038, AC007751, AF117829, AC004895, AC007528, AL008732, TP004477, AL031650, AL096861, AL035081, AC006960, AL121603, AL008583, AC007731, AC005500, AC009891, AC007437, AC004690, AC006762, AL049550, AP000402, AL096770, AL031178, AC007450, AC006538, AC002331, Z85987, AL035467, AC000066, AC003695, X60152, AC006196, Z97206, AL023803, AC004070, Z84467,
HMSIF204	3386	615473	1 - 201	15 - 215	
HMSG34	3387	706355	1 - 209	15 - 223	

AL035417, AL031577, AL096769, AL050308, AC002422, AL078604, AC005879, AC007225, AC004041, AP000431, AR036572, U91328, AL022318, AC002347, AL010770, AC007684, AC005358, AL246003, AP000548, Z97352, AP000302, AP001059, AC004771, AP000114, AP000446, AL031295, AL049537, U91322, AC004104, AC007536, L43392, AC007687, AC005912, AL022721, AC005084, AL109627, AC005043, AC006006, Z69666, AC008173, AC005041, AL033525, AL152365, AC005274, AC008249, AC004583, AC004814, AC005377, AC004960, AC002542, AL121658, AC005837, AC007277, Z98043, AL031588, AC005295, AC007245, AC005191, AC000100, AC002395, AL031591, AC006925, AP000350, Z97987, AL033521, AC002509, I17291, X83604, AC008040, AC004019, AP001550, AL021918, L13709, L13713, AL031732, L13714, X82025, AC006353, AC002041, AC007686, AC004381, AL031447, AC006195, AL135879, AL121790, U91321, AC004386, AC007564, AC002091, AC005971, AF109907, Z99716, AL031407, AC005755, AC003119, AC021092, AL049761, AC009516, AL031053, Z98051, AC007447, AC006026, Z83313, AC004745, AB020866, AC007686, AC000052, AF130248, AC000004, AC006468, AL020995, Z82900, AC004152, AL135744, AJ006996, and AP001172.				
HMSGA41	3388	712490	1 - 530	15 - 544
HMSGB07	3389	953715	1 - 332	15 - 346
HMSGC69	3390	757337	1 - 340	15 - 354
HMSGC76	3391	767661	1 - 345	15 - 359
HMSGD02	3392	920525	1 - 430	15 - 444
HMSGD15	3393	959468	1 - 409	15 - 423
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HMSGH49	3394	712123	1 - 530	15 - 544
HMSGH42	3395	712994	1 - 340	15 - 354
HMSGR16	3396	861329	1 - 793	15 - 807
HMSGR82	3397	778875	1 - 279	15 - 293
HMSGL27	3398	638097	1 - 1599	15 - 1613
				T83331.
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HMSGP45	3399	699243	1 - 428	15 - 442	

HMSGP49	3400	723131	1 - 376	15 - 390	
HMSGP73	3401	925385	1 - 961	15 - 975	AI740741, AI435434, AI475908, AA026659, AI802875, AA262760, AI524192, AA279545, AA262840, W45255, AI138162, and AC004490.
HMSGQ30	3402	692880	1 - 393	15 - 407	AI468586.
HMSGQ57	3403	733869	1 - 406	15 - 420	AI700885, AI884861, AI473995, AI073373, AI033464, AA357979, AA078184, T39390, AI903448, AA578626, AA524007, AI207476, AA384208, AA313133, AI143653, CI4576, AI869786, AI289196, AI921491, AI13705, AA513189, CI5356, AA078137, AA525571, AI731366, AIW081857, N34258, AI437653, R48980, AA384484, AI570380, AA247731, AI304790, AA961966, AIW238639, CI5180, AA628740, AI049630, AA373861, AA322542, AA078509, AA295893, AA533660, AA295899, AA633799, AI036665, AA633981, AA565232, AA633875, AA666066, F03907, AA601653, AA736713, AA513916, AW32755, AA492524, AI889426, AA493628, AI045423, CI5362, AA402113, T49133, AI468993, AA229030, Z36248, T39420, AA084950, AA468923, AI036070, AA438993, AI866971, AI134664, H92336, T06876, AA714190, AA314338, AI431513, AA133013, W52705, AI733856, AA985145, W59977, AA744095, H92613, AA713735, F55684, AI863246, T08386, AA363503, AI338575, F10822, AA308598, F30497, AI624038, AA569206, T07225, AA757758, AI065043, AA302557, AI123988, I49286, AI654638, W44359, T04928, H74324, AI679221, AI281401, AI478906, AI23986, I49286, AI654638, W44359, T04928, H74324, AI679221, AI281401, AI478906, T30418, AW105463, AA683091, AA350406, AW337805, AI859906, H69517, AA728911, AI612810, AC008125, AC004887, D87012, AC011331, AC005551, AI035659, AC002091, AC005015, AI031651, AC003962, AC002326, AI023575, AC006963, AC002364, AC004687, Z98036, AC004703, AC005865, AC004859, AI049569, AC004131, AC005280, Z99716, AF048727, AI133289, AC004383, AC007308, AI049548, AC004891, AC006043, AI021393, AC005081, AI133448, AC004832, AC006000, AC012099, AI035249, AP00303, AI035072, AP000049, AP000116, AP000114, AP000046, AP000311, AI009031, AC003682, U62317, AC007011, AC007421, AI031663, AC005005, AC007993, AC006160, AC004778, AI031664, AC004844, AC005089, AC002565, Z81363, AC002303, AC005231, AI117694, AC005086, D86995, AC003098, AC004100, AI030348, AC002039, AC007237, AI035667, AP000555, AC005726, AC007546, AC004216, U62293, U63721, AC005057, AC003973, AC005874, AF134471, AI132826, AI008634, Z82244, AI049869, AC006312, AC006275, AC004675, AI049576, AC006578, AC003681, AC007899, AI133312, AC006336, AC007292, AI011931, AI020993, AI031781, AI050307, AI031290, AI035417, AI243213, AC005043, AC008015, AI133238, AF107885, AF205588, AC004150, AF088219, Z93241, AC007367, AC005942, Z49235, AC003007, AI109914, AC005632, AF000662, AC005952, AI049745, AC007193, AP000350, AC004983, AF024533, AC006146, AC010200, AB01126, AC003119, AC000379, AC004836, AC006251, AI031056, AC002312, AI049776, AC004882, AC004975, M94081,

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HMSHL85	3429	773811	1 - 348	15 - 362	AL117354.
HMSHL28	3430	855792	1 - 523	15 - 537	AA476784.
HMSHO64	3431	746582	1 - 398	15 - 412	
HMSHP08	3432	868170	1 - 364	15 - 378	
HMSHQ07	3433	953389	1 - 569	15 - 583	
HMSHR29	3434	924813	1 - 811	15 - 825	
HMSHR64	3435	746587	1 - 406	15 - 420	R25085, AA281484, AA099305, AA351609, W96314, and AL137561.
HMSHT10	3436	964647	1 - 376	15 - 390	<p>AL358229, AA587604, AA908687, AW079135, AW406755, AL457397, AL365988, AA613203, AL196931, AL344443, AW069481, AW419262, AT745325, AL281881, AL053672, AA652764, AL654525, AA482768, AL124759, AW338086, AL270559, AA669840, AA446657, AA610491, C05986, AL284640, AT754253, AW193265, F36273, AL133164, AA581903, AL046457, AW088058, AA551552, AL046205, AA346458, AL133232, AT799642, AL305547, AL821714, AT792133, AL791913, AL038705, AW270270, AL280632, AA503600, AW029038, AA493708, AW079792, AW439558, W79504, AW301809, AA828749, AL431240, AW407578, AA738034, AL120687, AL249997, AA720702, AA580808, AA502866, AL564185, AA613227, AW773218, AA973803, AA1113861, AL866908, AL821755, AA309257, AW167372, AL119984, AA164251, H96730, AL245679, AA665021, AL684097, AW089322, AA747777, AW166815, AL71481, AA767971, AW406162, AA569471, AL921296, AL434695, F25135, AA244286, AL299694, AA643962, AA723272, AA521323, F28204, AA713815, AL148277, AL951863, H77643, AA533725, AW021207, AL370878, AW149339, AL022328, AL096701, AC004033, AC005480, AC007731, AC005500, AC004637, Z98051, AC003007, AC006251, AL049569, AC005261, AC005632, AL021808, AC007666, AL049759, L47234, AC005900, AC006275, AC000419, AC004686, AC000032, AC005837, AL049776, Z86061, AC004967, AL020993, AP000114, AP000446, AL049643, AC007510, AC005527, AC004827, AC007207, AL049709, AC004987, AC006205, U85195, U80017, AC005089, AC007685, AE000658, AC007726, AC004638, AC006511, Z82097, AC002091, AC006017, AC006271, AC005231, AC004982, AC004491, AC006571, AC006449, AC002350, AL080243, AC004815, AC016025, AC004146, AC005696, AP000359, AC004848, AC001228, AC006040, AL109939, AL135744, AC000445, AL023913, AC008012, Z97034, AF196779, AC003029, AL022163, AC007390, AC002429, AP000115, AL022302, AC007114, AC005868, AC006312, AC005180, AP000402, AL031777, AC006482, Z83823, AC005529, AC006285, AC009721, AC006014, AC005901, X74558, AC006061, AC004812, AC004626, AC004832, Z89666, AC004765, AC006571, AC005747, AC000727, AC002448, AL008718, AC005841, AC006480, AP000141, AC000025, AL035072, AC005288, AC004997, AC005300, AC002347, AL132774, AC007298, AC005488, AC007151, AL034430, AC004755, AC006063, AC006208, U82668, D87675, AC003048, AC004975, AC005486, AC000353, AP000132, AP000210, AC006006, AC008101, AC002544, AB020859, AP000030,</p>

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HMSHT46	3437	959516	1 - 242	15 - 256	
HMSHU10	3438	964646	1 - 401	15 - 415	AA780867, AA746360, AL367306, AC004540, AL080243, AL031577, AC005086, AC005546, AC007227, AF001548, AL031255, AF024533, AL035455, and AC016473.
HMSHU55	3439	731775	1 - 507	15 - 521	
HMSHV09	3440	731740	1 - 343	15 - 357	
HMSHV44	3441	716596	1 - 531	15 - 545	H67330.
HMSHW22	3442	855779	1 - 380	15 - 394	
HMSHW84	3443	783036	1 - 274	15 - 288	AC006241.
HMSHW93	3444	792302	1 - 299	15 - 313	R25210.
HMSHW97	3445	933331	1 - 494	15 - 508	
HMSHZ03	3446	924136	1 - 523	15 - 537	
HMSHZ56	3447	733386	1 - 302	15 - 316	
HMSIA12	3448	948521	1 - 714	15 - 728	
HMSIB73	3449	578777	1 - 433	15 - 447	AA936787, and AC003902.
HMSIB86	3450	785493	1 - 576	15 - 590	M62052, and AC007263.
HMSIC37	3451	685586	1 - 408	15 - 422	
HMSIC72	3452	740365	1 - 359	15 - 373	
HMSID81	3453	774047	1 - 489	15 - 503	
HMSIE11	3454	967013	1 - 124	15 - 138	AA312074.
HMSIE52	3455	727146	1 - 353	15 - 367	AA525024, AA525066, AA5295766, AA524685, AB194785, N71720, AL001643, AA502477, NS7913, R59126, AL147155, AL1282710, AC003080, Z83847, AC005500, AC002352, AC000353,

HMSIG74	3456	725842	1 - 420	15 - 434	AC004383, AC004216, AL035461, AP053356, AC006430, AC004617, AC005071, AC006241, AC00432, M89651, AL035086, AC004638, AC007664, Z84466, Z93141, AC009297, AC002551, AC005484, AC002549, AC004055, AF109907, AC007226, AC004858, AC006213, SG2834, M97764, AC004968, AC002472, AC005280, AC008040, AC005005, AP001053, AC007685, AC004910, AC004033, AC003957, AC004242, AL034379, AP000240, AC005736, AC005095, AP001052, AJ011930, AL122020, AC007193, AL049631, AL049712, AC007773, AL022336, AL022162, and AC004526.
HMSI81	3457	365937	1 - 311	15 - 325	R96445, and H70887.
HMSI88	3458	916552	1 - 278	15 - 292	AA487995, AL046987, AA487884, F18394, AA776236, AW383129, AL245679, AL364570, AL801591, AW118517, WT7950, AL471374, AL355281, T56067, AA364193, AA654998, AL880002, AW157599, AA662017, AS359366, AA365248, AA102412, AL561335, AA584388, AA648064, AA652448, AA299151, AA593533, C15073, AA620525, AA480762, AA862213, AW383634, AL148245, AL010609, AL597832, AL501232, AB32782, AL040313, AL119649, AW300013, AW383608, AW383628, AA333450, AW383542, AW383586, AW27612, AL952786, AL986251, AW383596, AW383605, AW383624, AW383606, AA653221, AA053975, AL367471, AL367401, AL355224, AL367420, H15679, AL049940, AL047602, AW272925, AL005380, AL418327, AT702095, AL702043, AL1684208, AS35567, AC632407, AL677668, H41759, AW082063, AA704147, AA533038, AW025031, T29360, H61393, AL048266, AL354857, AS38928, AL613473, AG353114, AA088841, AL135674, AW704123, AL341664, AL086850, AL198376, AA514737, AA094651, AA302970, AL682998, AL744188, AA053551, T58118, AW190947, AL915068, AL283761, F35659, AA404499, AL357477, AL364224, AL299601, AL228830, NZ3503, AS323547, AL613459, T67425, T05319, AS37687, AL813902, AW021285, AL119295, N70048, AL493546, AA635331, AA437161, AS356601, AL619997, AL512901, AL306524, AL925040, R80865, AL624698, R04554, AA5336, RA42293, AW193512, AA838333, AL249997, AL055447, AA702023, AL613893, AL744170, AA091452, AL174535, AL164960, AL572564, AL699060, H64560, AL179090, AL493634, AA829106, AA284184, AL783494, AA669522, AL270343, AW172727, AL439360, AL829331, AL802526, AL979113, W47444, AL587565, AA553385, AL287964, AL587583, AW151884, H97666, AL561255, AW383560, AW338086, AL332215, AW383455, AW383629, AL468110, AL128353, AL341548, AL179136, AL366071, AL079528, AL041382, AW338292, AL915293, AA629597, AL765979, AL110760, AL559114, W04195, AW100415, AL192695, AA481363, AL037574, H98660, AL582890, AW084253, AA481375, AW241511, AA362700, AW241456, AA3584749, AA826440, AL805563, Z98473, AL281474, AA532955, AA342958, AA443065, AL270117, AW327282, AL445675, AA507246, AL345681, AL038833, AA491814, R26134, H60735, AL013176, AL041706, AL633390, AL034402, AC005321, U24498, AC002457, AP064866, U95090, AL020995, AL021938, AC000067, AC005561, AC004978, AL031722

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HMSIN64	3459	963441	1 - 559	15 - 573
HMSIN75	3460	728670	1 - 299	15 - 313
				AA400632, AA368986, AA400317, AA811357, AB15926, AA353038, AB15728, AB86852, AA54783, AA740345, AA676886, AB839007, AB090223, AB148002, AW081785, AH403607, AA513753, AY797479, AL191303, F26406, AB188727, AA536076, AB432454, R07547, AB36523, and AB970899.
HMSIO61	3461	741811	1 - 398	15 - 412
HMSIO76	3462	767680	1 - 396	15 - 410
HMSIP13	3463	792379	1 - 602	15 - 616
				AC005950, and AC001228.

HMSIP59	3464	739275	1 - 477	15 - 491	
HMSIS02	3465	920078	1 - 438	15 - 452	
HMSIT63	3466	745068	1 - 360	15 - 374	
HMSIT73	3467	708077	1 - 309	15 - 323	AP000150, D83253, and AP000009.
HMSIU50	3468	706363	1 - 349	15 - 363	
HMSIV17	3469	712318	1 - 505	15 - 519	AC007537, and AL109865.
HMSJA36	3470	685633	1 - 242	15 - 256	
HMSJA69	3471	745227	1 - 323	15 - 337	AL121652.
HMSIB02	3472	920065	1 - 552	15 - 566	
HMSIB64	3473	969637	1 - 356	15 - 370	
HMSIB83	3474	781172	1 - 303	15 - 317	AL043325, and D29677.
HMSIB93	3475	676414	1 - 411	15 - 425	P06560.
HMSIE47	3476	928252	1 - 527	15 - 541	
HMSIE52	3477	868167	1 - 455	15 - 469	
HMSIE69	3478	513164	1 - 598	15 - 612	
HMSIH79	3479	760667	1 - 420	15 - 434	
HMSIJ22	3480	674557	1 - 584	15 - 598	
HMSIJ24	3481	928152	1 - 651	15 - 665	AC004262.
					AL144537, AA777781, AL18005, AW139587, AW206289, AL627853, AL493150, AA827263, AW301021, AA1196170, AL367643, R84740, AW139788, AL539840, AA992466, AL135079, AA342835, AA018860, AW341838, AA889455, AL086195, AL032948, AA136660, W95055, AW277153, AL123630, AC006987, AL031846, AC007276, and AL035461.
HMSIJ83	3482	781094	1 - 312	15 - 326	N71930, AA557879, AW193546, AL137954, AL120502, AA368936, AA578961, AA441788, AW072923, AL432270, AW406659, AL379719, AL499094, AL143242, AW069807, AL499503, AA837783, AA342901, T07324, AL307201, AA594215, AL160117, AA483034, AL635818, AA484148, AL110298, F28576, F36373, AA626637, AA528679, AL569086, AW265197, AL601270, AA309460, AA652057, AL4649642, AL003734, AL041706, AA638846, AL079910, AL641103, AA493508, AL070788, AW193500, AW302117, AL890928, AL709066, AA095511, AL890570, AW088058, AL334435, AW340844, AL079645, AA694169, AW438916, AW05877, AL264743, AA578154, AL042856, AL312149, AA715270, AL357551, AA448858, AL051551, AL471374, AA484262, AL125788, AL079843, AL445436, AW408161, AA355281, AW406447, AA847741, R72392, AL281903, AL754291, AA548137, AA715268, AW276435, AW276932, AL557323, AL561335, AW264969, AL609223, AW173651, AA632648, AW072587, AL744739, AL469172, AL435544, AA341228, AW238016, AL963786, R13151, T92445, AA360694, AL345518, T63104, AL114660, AA657533, H70615, AL801591, AA608710, F33511, AL331852, AL674873, AL914706, AA448838, AL312309, AL654588, H55894, AA862225, AW188679, AA443695, T08638, AA584581, AA357987, AL110418, AA599495, AL473701, AL279759, AW249835,



HMSIL41	3483	922753	1 - 504	15 - 518	<p>             A1859251, A1669453, A1921188, A1627581, A1053790, A1603445, A1744297, A1252085, A1768342, A1865364, A1252114, F19136, A1022379, A1792903, A1704643, A1792864, A1739577, A1734002, A1745330, F32808, A1709363, A1612152, A1922002, A1679009, A1666407, A1927741, A1963095, N17729, R52326, A1002422, Z84487, A1031650, A1004963, A121578, A1004020, A122126, A1004079, A1031286, A1005026, A1003682, A1005191, A1007106, D84394, A1031285, A1109847, A1000355, A1007563, A1021397, A1009241, A1031584, A1002990, A1004706, U69730, A1006367, Z98755, A1031387, A1006995, A1032821, A1035608, A1000567, A1022394, A1004047, A133241, Z83840, A1004993, A1006660, A1000506, A1006046, A1049636, A1023279, A1005342, A1006924, A1008282, A1049775, A1000882, A1022098, A1004180, A1006197, A1022329, A1004025, A1003029, A1004385, A1005476, A1007486, A1080238, Z83841, A1000062, A1050343, A1007684, A133249, Z94277, A1000507, A1007214, A121823, Y10196, A1031255, A1003013, A1004865, A100196, A1004383, A1010209, A1006271, A1006997, A1005186, A1015752, A1031388, A1010072, A1006525, A1020867, Z83822, Z84470, A1007402, A1004038, A1031686, A1009172, A1001137, A1006996, A1003049, A1004067, A1006143, A1109852, A1023876, A1007637, A1090776, A1009399, A1008723, A121882, A1005722, A1049781, A1003010, A1004053, A1006120, Z82194, A1007245, A1008723, A121882, A1005722, A1049781, A1034350, A1006287, A1008123, A1004629, Z84469, A1004921, Z99128, A1003960, A1004478, A1002466, A1006062, A1002412, A1008012, A1007885, A1006113, A1004087, A1002457, A1122023, A1000240, A1011604, A1109801, A1023807, A1004393, A1004074, A1133163, A1005969, A1000004, A1049834, A1021392, A1004014, A1005832, Z83820, A1006441, A1121871, A1006079, A1133289, A1002524, A1031653, A1007666, A1000470, A1006966, A1002060, A1049589, A1022158, Z97876, A1002463, A1006582, A100470, Z75741, A1007687, A1000659, A1004231, A1137100, A1007320, A1022720, A1096817, A1004835, A1020868, A1049874, A1004081, A1002287, A1035696, Z95329, A1109654, A1007786, A1000475, A1005229, A1006210, A1000086, A1002476, A1109755, A1008710, A117338, A1007159, A1012099, A1109754, A1011422, and Z70225.           </p>
HMSIL41	3483	922753	1 - 504	15 - 518	<p>             A1022721, A1005233, A1005207, A1078409, A1653150, A1003391, A1182569, T16427, A112646, A1551062, A1307563, A1458452, A1228442, F02399, A1135490, A1661590, A1021354, A1446478, A1302350, A1720732, A1722505, A1582554, A1704763, A1190648, A1270476, A1759493, A1302594, A1413406, A1021388, A1040051, A1081303, T03928, A154243, A1453221, A1538075, A1631915, A1054170, A1610468, A1483103, A1862716, A1583466, A1004893, A1031597, A1004685, A1002544, A1035420, A1005839, A1000501, A1132777, A1006210, A1004000, A1005049, A1002476, A165926, A1022476, A133246, A1000353, A1006211, A1007096, A1035685, A1031774, A1005531, A1005081, A1000103, A1007526, A1007637,           </p>
HMSIM33	3484	702408	1 - 411	15 - 425	
HMSIO36	3485	708084	1 - 397	15 - 411	

HMSIO44	3486	716600	1 - 378	15 - 392	AC003043, AC007225, AC005274, AC004973, AC007773, AC005089, U91326, AC007993, AC031735, AC005411, AC005480, AC004033, AC005535, AL117352, AC004079, AC008116, AC004796, AL049697, AL031118, AL031667, AP000355, AC002492, AC003029, AP001052, AC000003, AL031432, AC004895, AL031673, AL008718, AC007216, AL050327, AB023048, AL121653, AL132712, AC004129, Z84487, AF196969, AC005064, AC005011, AC004139, Z82200, AC005777, AF038458, AC004686, AC004834, AC005412, AC004851, AP000211, AP000133, AC005363, Z97630, AL008710, AL034402, AC006077, AF053356, AC004526, AC008134, AL035072, AC004231, AL035683, AP000555, AL022313, AL022396, AC006452, AF134726, Z83826, AC004913, Z81365, AL049874, AL035450, L78810, AF030453, AC004551, AC006581, AC005837, AC004596, AC005907, AL033524, AF111169, AC006311, Z98941, AC003101, AC004841, AL008629, AC007226, AC005822, AC004814, AL049839, AL034582, AC007510, AL133448, AL034400, AL035413, AC006241, AL109758, AF001550, AC016830, AC005874, AF134471, AP000557, AC007686, AP000689, AC007283, AC005971, AL046003, Z85996, AL136295, AC005228, AC007387, AC005520, AC007263, AL049569, AC002369, AL022165, AC004019, AC005229, AC002565, AC000609, AL005587, AL121658, AF067844, AL035249, Z98731, AC004216, AL034548, AC003663, AC005722, Z94036, AC002354, Z82190, AC005332, AC004073, AL035089, AC005015, Z99716, AL035455, S42653, AC002354, Z82190, AC000159, AC004963, AC006449, AL035405, AC006441, AL049776, Z98304, AC008372, AC003962, AL031053, AC005154, AF001549, AC004655, AC005537, Z97053, AC006454, AC005881, AB020868, AL020993, AC005088, AL109952, AP000563, AC002430, AC002300, AL049759, U95739, AC004020, AL133163, Z93023, Z83843, AC002553, AC003035, AC007688, AC002350, AC005755, M89651, AC007384, AL031680, AC002302, AC005736, AC005209, AC003684, AC006126, AC002126, AL109984, AC000025, AC004876, AC004707, AC002375, AC005828, AL109627, AL021395, AC005280, U91323, AC006273, AB003151, and AC004678, AA740736, W61253, AA780648, AA167179, AL150934, T03928, AA743718, AA598889, AA865640, AL082130, AC007421, AC002091, Z82206, AP000691, AC006047, AC006454, AC004185, AL031680, Z69638, AP000692, AL033527, AC006538, AC016025, AL122020, AC007684, Z85986, AC002481, AC006511, AF1217403, AL133249, AL022323, AL031311, AP000509, AC004668, AF196969, AC006960, AL109963, Z85994, AL049641, AL031846, AL021528, AC005342, AF027550, AC004953, AL031602, Z98941, AC005829, AC005332, AF111168, D84394, AP000228, AL031597, AP001056, AC005694, AL035455, and AC004017, AA565398, AA382192, T73974, N87333, AW132065, AA557727, AA639939, AL049924, AL281622, AB87197, B57089, H59974, AA654293, AL11936, AL022363, H07930, AA070614, AA370883, AA618451, AA466297, N27874, AL060129, AL754653, AA468318, AA669747, AA584765, K77715, AW211071, H80215, AL191949, AL423034, AA721581, AA165079, AL47641, F07225, T47096, AC005838, AL049646, AC002128, AL117354, AL049795, AL049712, AF118808, AF001905, AL137191, AC005994, AL049844, AL109865, AL022400, AF111168,
HMSIOR7	3487	854106	1 - 495	15 - 509	AA565398, AA382192, T73974, N87333, AW132065, AA557727, AA639939, AL049924, AL281622, AB87197, B57089, H59974, AA654293, AL11936, AL022363, H07930, AA070614, AA370883, AA618451, AA466297, N27874, AL060129, AL754653, AA468318, AA669747, AA584765, K77715, AW211071, H80215, AL191949, AL423034, AA721581, AA165079, AL47641, F07225, T47096, AC005838, AL049646, AC002128, AL117354, AL049795, AL049712, AF118808, AF001905, AL137191, AC005994, AL049844, AL109865, AL022400, AF111168,

HMSJ27	3488	855760	1 - 576	15 - 590	AC006313, AL035458, AC005730, AL035443, and AL034344.
HMSJR41	3489	967070	1 - 416	15 - 430	AA002166, AA256383, AA699351, AA176339, and AJ249977.
HMSJR74	3490	710402	1 - 427	15 - 441	
HMSJT11	3491	965007	1 - 1744	15 - 1758	
					AB95693, AA135585, AL137976, AA171140, AA745126, AB52492, AA436379, AL179403, AW006280, AA135524, AA234271, N22187, AA491640, AA256692, N17230, H23394, F12594, and AB011127.
HMSJT60	3492	733379	1 - 258	15 - 272	AA218874, AW0069273, N57205, AA831375, H81732, AA370795, T98915, T62975, AA370455, AA330772, AA28696, R79496, R93081, AA348602, AA72686, AA968509, H97358, AA676621, AA317096, H12383, AC005099, AC004448, AC007327, AC005921, AC000063, AL033523, AC005736, AC002395, AP000556, AP000557, X77744, AP000553, D87011, AC007240, AC004961, AC004821, AC007666, AC007227, AC000052, AC004019, AC007226, AL135744, Z81308, AL049766, Z82194, AL035415, AC010170, AP001053, AP000252, AL023755, AP000134, AP000212, AL080276, AP000031, AC008372, Z86090, AC005914, AP000281, AC007999, AP000039, AP000107, AL049576, AC004706, AC007055, AC007151, and AL117337.
HMSJT70	3493	756465	1 - 385	15 - 399	
HMSJT79	3494	954141	1 - 433	15 - 447	
HMSJU28	3495	686664	1 - 400	15 - 414	
HMSJU67	3496	751602	1 - 401	15 - 415	
HMSJU12	3497	902568	1 - 3126	15 - 3140	
					AA585278, AA283312, AA585378, AA585389, AB526112, AA585116, AA585325, AA585329, AA585430, AA585439, T48593, AA585356, AA585327, AA585098, AA585433, AB525306, T26387, AW366296, AA383351, AA585101, AB541402, AL540855, AB541515, AB5415243, AB5395, AB5476, AB005666, AR031338, AR017826, AR031365, AB131952, AR037157, X82786, X53499, AR008429, AR062871, A25909, AR007320, A70872, X93517, AA4281, AB4995, A70899, AR029417, A70809, AR060142, AR060137, A30438, Z79475, I30122, AR038669, AB1667, M60510, AB1666, AR060134, AB4772, AB4773, AB4775, AB4774, AB3076, AB134119, Z79435, U79666, AB1750, X84816, AR028672, AB005559, U89315, AR060057, AJ009991, AJ012010, Z31700, and AA4216.
HMSJU19	3498	744990	1 - 691	15 - 705	AL043195.
HMSJU25	3499	678096	1 - 534	15 - 548	AL122020.
HMSJU211	3500	861381	1 - 587	15 - 601	
HMSKB02	3501	920056	1 - 488	15 - 502	
HMSKB24	3502	855883	1 - 196	15 - 210	
HMSKC56	3503	733388	1 - 397	15 - 411	AW058639, AB39743, AA465532, AL695594, and AL133112.
HMSKC66	3504	783028	1 - 371	15 - 385	

HMSKC90	3505	675055	1 - 373	15 - 387	
HMSKE32	3506	699273	1 - 383	15 - 397	
HMSKE62	3507	966084	1 - 387	15 - 601	
HMSKG23	3508	675885	1 - 381	15 - 395	AC004751.
HMSKC08	3509	959413	1 - 509	15 - 523	AC008545.
HMSKCQ60	3510	495734	1 - 513	15 - 527	AI203185, AW229380, AF094516, and AL122075. AW085811, AI188327, AI065031, AW069769, AA661583, HG4858, HG4884, AI962030, AW021399, AW023975, AW151848, AI609972, H59797, F35374, AI355246, AI042667, AL042670, AW023111, AT701898, AW237905, AW327673, AI250333, AW328331, AI733856, AI801479, AI890283, AT754027, AI439525, AI040051, AW069227, AI580472, T57096, AW243817, AI199578, AI74827, AW275432, AI121039, AI031759, AI702049, AW265468, W328185, AI927275, AT744199, AW268793, AW021674, H38769, AA610381, AI044966, AI567676, AI884404, AI251024, AW268793, AW021674, H38769, AA610381, AI044966, AI754653, AI017251, AT744890, AA493546, AW162314, W04260, AA809546, AW020612, AI925812, AI003469, AA644090, AI254267, AW085626, F23338, AI859438, AA515728, AA507623, AI038936, AA812133, AA522753, AA503307, AW162332, AA640305, AI249365, AA526542, AI038936, AA812133, AI572680, AA421536, AW028376, AW148821, AI899177, AI267416, AA828834, AI312614, AW057760, AW410844, AI053696, AI221027, AI003068, AA526659, AA720732, AI000314, AI049955, AI133083, AA533660, AA526658, H86399, F29968, AW270385, N23504, AI547110, AI447093, AI036949, AI112864, AI947352, AI821901, AW020094, AW189853, AW268277, AI311796, AW301771, AI446618, AA653139, AI039257, AI246796, AW407007, H94598, AI872229, H62123, AI862716, AA593168, AI185160, MT79964, AA636077, R79396, AI918661, AA807704, H47461, AI434103, AI679759, AI038533, N70293, AA600127, AI457313, AI064968, AI202777, AW190437, AI634187, AW131109, AI805556, AI361401, AA761454, AA428991, AA496042, AI363336, AI805373, AI343808, N35135, AW081610, AI732151, AA419107, AI653999, AA419014, AI798521, AI148820, AI566408, AI653776, AA502991, AI152398, AW419201, H68343, AA568303, AI0882104, AA604149, AA60202, T90477, AA595661, AA515727, R93919, AA364147, AA598545, AI801505, W27084, AA551062, AC006071, AC006006, AC005914, AC005695, AC00515, AP001116, AC006449, Z84474, AI022370, AC004876, AC004760, AC005826, AC005755, AI121603, AC005993, AC007666, AI031680, AP000048, AC005694, AC004263, AI009181, AC004671, AC004765, AP000558, Z97035, AP000309, AC007314, AI049591, AC006379, AC005064, AI035684, AI022351, AI022313, AC009247, Z83844, AC005037, AI133448, AC005527, AC004796, AI022336, AC005529, AI096712, AC005519, AC006344, Z83840, AC002418, AC005484, AI031255, AI031587, AI022721, AC009516, Z80232, AI034553, AP000280, AC007686, AP001068, AC005300, AC006539, AC004386, AP000252, AP000107, AI117391, AC004019, AI034379, Z95116, Z97181, AC007917, AC005902, AI035445, AC008498, AC005288, AC007285, AF031077, Z81450, AC005736, AI109847, AC007051,

				AC005202, AC002565, AC006946, AP000212, AP000134, AC005089, AC004703, AC003662, AL022322, AC000029, AL003659, AL096791, AC002504, AP000692, AC004531, AP000039, AC004003, AC007216, AC006581, AL020997, AC007731, AC004973, AC006013, AC004883, AL033527, AC004912, AC005500, AC004814, AF165926, AC007358, AC007510, AL021707, AC004257, AP000536, AC0035416, AC005253, AC005224, AC006388, AL031666, AC005971, AL050307, AL0035079, AC005488, AF001549, L78833, AL050318, AL049761, AL122020, AL135744, AC002543, AC004032, AJ011930, AL0035457, AC000353, AC007226, AL049869, Z81364, AC000387, AC004000, AC004752, AL078477, AC000105, AC007688, AL009984, AL117555, AL049760, AL031005, AC004099, AC005280, AP000362, AP000553, AL049743, AL133163, AL133246, AC004097, AC002996, AC005200, AL109952, AC004652, Z98749, AL022326, AC006273, Y18000, AC005469, AC004423, AC003453, AL020993, U96629, AL022396, AL080243, AF031078, Z93017, AC006441, AC003108, U83195, AC005399, AC005839, U95742, AL050321, AF030876, AC007536, AL021579, Z93930, AC003083, AE000658, AC003048, AC004033, AC006211, AC004771, AL035086, AC004167, AC005740, AC006487, AF027550, AC006285, AC004659, AL132777, Z98048, AC005585, AC0060971, AC006317, AL022476, AC006088, Z98200, U52112, AL049694, AC005393, AL031121, AC004865, AF109907, AC010205, AF117829, AC005754, AC006162, Z95329, AC008044, AC005358, AF134726, AC005821, AP000557, AC006597, AL121852, AL031591, AC009509, AL034429, AD000092, AC002369, AL049709, AC005254, Z98745, AL021808, AC005332, AP000264, AC004626, AC006125, AC005339, AC004034, AC004805, AC005412, AP000555, AL049778, AC005303, AD246003, AL031296, AL096701, AC008009, Z84469, AC005183, AC007690, AL078584, AP003626, AL008710, and AL049646.
				T64029, AC002115, AC006480, and AC005306.
				AA745302, AL567391, AL160786, AL058312, AA553570, AL929298, AL929825, AL927261, AW157180, H71659, T06518, AA229422, AA523695, AA420779, AA425924, AA654874, AA445908, AL871913, AA378207, AD246061, AA634926, AA586433, W81372, AA6378489, AL298079, H29914, AL037927, H73550, AL00818, AL10992, AL192440, AL380617, F26713, AA862075, AB11647, F33037, AA384207, AA077637, N83301, AA581247, AA630122, W21218, AA025872, AL542677, AA569053, AA4278880, AA368329, AA44384, AW023111, AW019964, AL162128, AL915081, AA744410, AW419389, AA599423, F33126, AA721523, AA721530, AA363003, AA328387, T99179, AW275432, AA663373, T83057, AA282951, AL121287, AL054090, AL078128, AA568314, AA554257, AA079076, AL078409, N44146, AA714073, T54783, AL671077, R93919, N27615, AA904211, H81406, F30158, AA937809, AL866580, AA584493, T69879, AA579188, F23294, AL272649, AL127570, N36143, N86362, AL686470, R87135, AW245860, C16358, AA205436, AL134527, AL284543, AA214042, AW238575,
HMSKS66	3511	413201	1 - 426	15 - 440
HMSKU36	3512	966289	1 - 374	15 - 388
HMSKU90	3513	920151	1 - 734	15 - 748
HMSKZ29	3514	690662	1 - 341	15 - 355

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HMSLB94	3515	773812	1 - 317	15 - 331	AW193829.
HMSME83	3516	950970	1 - 600	15 - 614	
HMSMF12	3517	948393	1 - 443	15 - 457	
HMSMG02	3518	915179	1 - 369	15 - 383	
HMSMH05	3519	931095	1 - 594	15 - 608	
HMSMI12	3520	969636	1 - 610	15 - 624	
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HMSMK12	3521	841898	1 - 658	15 - 672	RS1068, H18491, AW378532, D34614, AC006208, and AL022322.
HMSML27	3522	870008	1 - 344	15 - 358	
HMSMN04	3523	926746	1 - 179	15 - 193	
HMSMN23	3524	932548	1 - 708	15 - 722	N80156.
HMSMO05	3525	931022	1 - 98	15 - 112	
HMSMV92	3526	934140	1 - 502	15 - 516	
HMSMX68	3527	861333	1 - 412	15 - 426	F04478, A6661021, AW438643, AA492081, F09626, AL002834, AL634384, AA584167, AA992351, D52587, F19070, AW782304, AA780944, AW193265, AW276827, AI068846, AL046409, AL169997, AA347368, AA577906, AB860013, AI345157, AI350211, AW194342, AA599920, AD89067, AI061334, AA623002, AI754658, AA873532, AL045808, AL046156.

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HMSNA44	3528	861293	15 - 629
HMSNR30	3529	968716	15 - 636
HMSNR92	3530	861314	15 - 626
HMSNX38	3531	974321	15 - 599
HMSOA29	3532	933329	15 - 469
HMSOA34	3533	936036	15 - 767
HMSOB43	3534	961779	15 - 335
HMSOC76	3535	916807	15 - 252
HMSOF03	3536	922858	15 - 415
HMSOG57	3537	861298	15 - 541
HMSOM08	3538	958216	15 - 571
HMSOM02	3539	918397	15 - 436
HMSOM77	3540	861288	15 - 627



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HMSO010	3541	963389	1 - 514
			15 - 528

HMSOP01	3542	915083	1 - 580	15 - 594	AA020882, H64598, T60940, R78647, A123968, AA487219, AA487079, AA538487, T07225, AA515224, AC000059, AL079342, AL055079, AC003071, Z91020, AC005081, AC004655, AL035555, U80017, AL049776, AC005482, AP000704, AL021154, AL121754, AP000555, AC006536, AF179633, AF196971, AC009405, AL133245, AF000355, Z84469, AC002073, AP000350, AL031673, AC002395, AC006360, AF111168, AC005826, AL109809, AC004405, AC006121, AC003669, AC005873, AC005004, AF029308, U47924, AC005934, AL109620, AC006061, AL121757, AL049780, AC005369, AC006128, AL136295, AL031311, AL031257, AC005225, AL031985, AF130247, U46455, AC000666, AC007632, AC010205, AC004764, AC005399, AC007785, AC003051, and AC007091.
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HMSOQ75	3543	959856	1 - 245	15 - 259	
HMSOU16	3544	948198	1 - 631	15 - 645	

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HMVA174	3559	684574	1 - 518	15 - 532	AF150282, A1276243, AV090199, A1022691, A1249193, and A1033035.
HMVA126	3560	789064	1 - 689	15 - 703	
HMVAW08	3561	962197	1 - 280	15 - 294	AI580823, AA993162, A1472918, AI368750, AI453823, AA747678, AA888560, AW242191, AI550319, AA211927, AA725398, AA917463, AA742371, AA732102, AI218576, AI129408, AI474325, AA594345, AI310062, AI560613, AA056507, AA747426, AA905372, AI216359, AA405612, AA884092, AA879906, AI820689, AI150838, T32650, D02027, AA666388, R36652, AI372931, AI149128, AI963448, AA115748, AI290638, AV009341, AA524303, N32841, AI460321, AW076026, T24776, AA858246, T63577, AW118055, W31629, AW265569, AA676598, T63502, A85117, and AC005192.
HMVAV55	3562	574215	1 - 228	15 - 242	AI130740, AI131523, and AW016460.
HMVBA36	3563	698060	1 - 528	15 - 542	
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HMVCO55	3572	868146	1 - 224	15 - 238	
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HMVCY46	3576	662311	1 - 359	15 - 373	N99112, AW452701, AA428994, and AA766700.
HMVCE64	3577	767714	1 - 350	15 - 364	AP000496.
HMVDA11	3578	861185	1 - 350	15 - 344	AA323534.
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HMVDF10	3580	970480	1 - 348	15 - 362	
HMVDF66	3581	915638	1 - 139	15 - 153	AA306716, AL272308, N46300, AA532331, and AL122098.
HMVDF83	3582	701907	1 - 344	15 - 358	AA129862.
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HMVDF75	3586	710475	1 - 543	15 - 557	N71412, W00789, N99736, T90278, N73838, and AL096710.
HMVDF89	3587	722581	1 - 367	15 - 381	AL034384.
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HMVDZ70	3591	878247	1 - 1205	15 - 1219	AW003291, AA927510, AA552415, AA210860, AW295775, AW450098, H14682, AW451140, AW450099, AA768028, AA323759, AA325907, R18955, AA588782, AA326001, AA726511, AA045961, AA768029, AW294299, R43963, A1923497, A1204450, A1609388, A1766770, AW075933, B50434, AA045960, T99804, AA325957, AW028853, R50435, AA573803, AW388521, H58575, AA190436, AW388475, AA299925, A1673040, AA534412, T99909, A1798620, A1743143, A1745610, A1671112, A1952808, A1751485, AA609752, A1743323, AL137509, and AF207550.
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					U69274.
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HMWBM0 9	3600	967687	1 - 381	15 - 395	AL121534, H05681, T09309, N36636, AA853335, AA216518, AA115428, AA188847, AA404726, AF151803, and AL049839.
HMWBN56	3601	745698	1 - 442	15 - 456	AL121534, H05681, T09309, N36636, AA853335, AA216518, AA115428, AA188847, AA404726, AF151803, and AL049839.
HMWBO07	3602	839560	1 - 490	15 - 504	AA025913, H26505, AV080056, AA122271, AA495850, AA078104, AB011110, and AC004084.
HMWBR86	3603	731650	1 - 337	15 - 351	AA025913, H26505, AV080056, AA122271, AA495850, AA078104, AB011110, and AC004084.
HMWBV45	3604	861152	1 - 349	15 - 363	AA025913, H26505, AV080056, AA122271, AA495850, AA078104, AB011110, and AC004084.
HMWCG29	3605	723779	1 - 212	15 - 226	AA025913, H26505, AV080056, AA122271, AA495850, AA078104, AB011110, and AC004084.
HMWCQ09	3606	924634	1 - 534	15 - 548	AA025913, H26505, AV080056, AA122271, AA495850, AA078104, AB011110, and AC004084.
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HMWCQ58	3607	738372	1 - 585	15 - 599	AA814994.

HMWCV08	3608	960083	1 - 287	15 - 301	R71737, AA904211, AL357108, AL354333, AA775188, AA341865, A1754066, A1554405, A1690497, R39329, AA604495, AA373107, AA598605, AA362791, AA372669, A1049630, A1054536, AC005225, AC006064, AP006688, Z99716, AC006241, AC005839, U91323, AF024533, AC005971, AC005920, AC007666, AC007793, Z93783, AC000052, AC002312, Z83845, AC006211, AC006449, AC005666, AC004019, AC004491, A1008637, AC004983, AF036581, AC005696, AF064090, AC005516, AL121658, AC005229, A1003147, AL049829, U91321, AF134726, AF102137, AC000134, AF222686, AL109865, AC006312, AL049636, AC004526, AP000553, AF108459, L44140, AF111169, AL049830, AC004030, AL050348, AC004975, AL121694, AC004851, AL078593, AC0088040, AC002350, AC002565, AC004814, AL049394, AF220465, AF033356, AL021939, AC005924, AL031279, AC006057, AC007488, AC005015, Z98200, AL035071, AC004771, AC004531, AF196779, U89335, AL022326, AL035086, AL023807, AL049776, AL031659, AL031311, AL031053, AC005911, AC004890, AC005787, AF045555, AC002470, AL049709, AL121782, AP00104, AC007938, AC005527, AC007225, Z49258, AL031597, AL033538, AC005899, AL049538, AL022313, AL132712, AB023048, AL031291, AL136295, AC005288, AL136168, AC007393, AC004874, AC005228, AC004929, AC006552, AC007707, AL135746, and AL031283.
HMWCY60	3609	531395	1 - 294	15 - 308	
HMWDD54	3610	932261	1 - 598	15 - 612	
HMWDD75	3611	800023	1 - 304	15 - 318	AI809080, AA379813, AI924837, AI609008, AI492061, AI080471, AA860342, AW273457, AA723182, AW170759, U46317, AI693837, R68374, R27368, AA579485, AI809655, AA173648, AI280048, AA173958, AA903598, AA187926, AI674623, AA653977, AA182901, F13240, AB020860, L46722, and U21855.
HMWDF88	3612	906769	1 - 349	15 - 363	H94922, R78249, AA448990, R14119, and N47060.
HMWDH23	3613	676216	1 - 397	15 - 411	AI248959, AI969858, AA310772, AI935408, AI023405, AW139513, AI914255, and AFI61349.
HMWDL52	3614	921603	1 - 368	15 - 382	M86156, AI383528, AI648449, AA708182, AW149204, AI565505, AI569929, AA830935, AFI36415, AI915216, AW025607, AG635323, AI269112, AI301509, AI808701, AW275607, AI268340, N86439, AC004692, AC004389, AL022150, AF022141, AI229041, AC008372, AC005164, AC006957, Z70272, AC004103, AC004217, AL049710, AL080273, AI031585, AL050311, Z83745, XG3690, AI069997, AI096770, AC009308, AC005900, AC011422, AL035563, AC005532, AL049834, AC000060, AL021026, AC006152, AL133247, AL022154, AC005191, AC000113, AC006384, Z96074, AL122127, AF121872, AC006972, AC005376, AL049734, AF064857, AC007656, AC007313, AL020989, AL118497, AC004506, AL049563, AL118503, Z97055, AL121657, AC009399, AI136297, AC006984, AC002507, AL021068, AL136130, AC002368, AF121899, AC005537, AC006153, AL031965, L42098, U85195.
HMWDQ83	3615	558021	1 - 351	15 - 345	AI050308, AE000658, AC005022, AP000161, AP000019, Z98052, AL023582, AC002366, AF001905, AC006083, AC004963, AC000665, AL022401, AL008633, AP000835, AC004981,

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HMWWDW6 0	3616	712083	1 - 302	15 - 316	
HMWWDY93	3617	573513	1 - 371	15 - 385	
HMWWDZ73	3618	573754	1 - 221	15 - 235	
HMWWDZ77	3619	573494	1 - 237	15 - 251	AA552576.
HMWWE04	3620	709334	1 - 312	15 - 326	AA158500, H50330, H43516, Z44332, Z60555, and Z65232.
HMWWE024	3621	781017	1 - 561	15 - 575	AL760719.
HMWEU73	3622	767384	1 - 360	15 - 374	AW328173, AW152205, AW385309, AA279517, AL167428, AA452524, W65387, AT745322, T63422, AL826716, AP789891, AL181895, W61291, AA828979, AW410086, AA098876, AA364030, AA773566, AA093538, AA098877, AA888692, AJ007398, AC007226, and AC007371.
HMWWEK11	3623	967362	1 - 925	15 - 939	Z46095, AA458817, AA601434, AA340097, AA364315, AL008729, AC004510, AC004791, Z85986, AL022400, AL135783, AL049797, AC003101, and AP000962.
HMWWEK39	3624	573604	1 - 235	15 - 249	AL224170, AL224166, AL224169, AL224168, and AL224167.
HMWEW8 5	3625	783973	1 - 376	15 - 390	AA913138, AA423926, AA913371, AL223267, AL131310, AW451350, AW402718, AA825964, AA831628, AA054510, AW151296, AA813817, L44288, AW450780, AL470126, AW241985, AL117223, AA084799, AW169986, AA482277, AA482179, W07615, AA535546, AA469966, NS0150, H92386, R88465, AL080018, and H02524.
HMWEF07	3626	953749	1 - 806	15 - 820	AA026434, AA026362, AW371765, and AB002340.
HMWEES31	3627	861129	1 - 303	15 - 317	
HMWFEC21	3628	752826	1 - 363	15 - 377	
HMWFEB01	3629	917150	1 - 122	15 - 136	

HMWFH47	3630	738220	1 - 473	15 - 487	T86765, AA355300, AA62872, AA313285, W9312, AA373610, AA314442, AW327419, N28311, W26959, AW246991, AA147465, AL193121, AA143349, T85873, AA026924, W07364, AA355802, AW160522, W02991, H11880, C04326, N28909, AW162940, AA112862, AA147394, AW190189, AL169465, AW246218, AW079419, AA156348, and AF132959.
HMWFF154	3631	573598	1 - 262	15 - 276	AC002454, and AL118497.
HMWFFO10	3632	954979	1 - 177	15 - 191	H71678, AA568314, AW419389, A1889696, AA602906, A1613389, AW151824, AA593501, A1271762, AA622801, AA502207, N73060, AA610433, AL791475, AL042373, AA152404, AW237905, AW023111, AL251429, AW117740, AA708678, AW177869, AA640490, F17700, AA747757, AA347969, AA077776, AL187148, AC005726, AC004750, AC004647, AC005046, AC002120, AL031670, AP001115, AC005412, Z94056, AL030348, AC005015, Z83844, AC006130, AC007263, U91323, AP000501, AF207550, AC005004, AC006006, AC005039, AL121603, AL109628, AC007240, AP000694, AF126403, AL049830, AC004975, AC003982, AL031283, AL049712, AC004832, AP000047, AC005695, AC001118, Z95115, AC006449, AC006146, AC005081, AP001056, AC007199, Z98742, AL096701, AL139054, AL096774, AC005209, AL132712, AL049569, AC005625, AC004139, AL035443, AC005696, AC005391, AC007845, AC007151, AL109627, Z84488, AP000305, AC002425, AC007934, U91326, AC005730, AC006487, AF108083, AL035681, AL031657, AC016025, AC004622, AC002347, AC004583, AP000120, AF109907, AL031281, AC003070, AL031846, AC007450, AC003108, AC006120, Z95132, AC002470, AC006271, AC005736, AC007686, Z83838, AL031591, AC007687, AC004858, AC005971, AC002059, AC002365, AC006050, Z82180, AC007114, AL121658, AL031587, AL135783, L78810, Z83826, AC007283, AF196969, AC009466, AP001051, AC006530, AC020663, AL133163, Z84466, AC005291, AC006388, AJ246003, AC006101, AL035400, AP000556, AL133246, AL021393, AC005486, AC005193, AL034423, AC000025, AC008012, AC005684, AC005251, AC004887, Z85987, Z93241, AL031597, AP00167, AP000052, AC003043, AL109984, AP000552, AL024498, AC002302, AP000553, AC005220, AL038458, AD000091, AC007052, Z97181, AC004841, AC007993, AP000503, Z85986, AC005969, AC006960, AL035683, AP000555, AC005972, AL031295, D88268, U62293, AC005778, AC005531, AF129756, L44140, AC003688, AC005529, Z98752, AC004509, AC004253, AL049757, AC006236, AC005666, AC005057, AB020864, Z83840, U95742, AL022237, AC005940, AC003037, AC004763, AL049694, AC007546, AC0060430, AC004601, Z98036, AC004791, AL021155, U91322, AB020866, AL009181, AL034582, AL022302, AC002375, AC005003, AC004813, AL121652, AC005943, Z84480, and AC005839.
HMWFFQ91	3635	573551	1 - 251	15 - 265	AA453990, and AL696031.
HMWFFR11	3636	967371	1 - 113	15 - 127	AL022318.
HMWFFU05	3637	861119	1 - 319	15 - 333	



HMWFLU85	3638	659578	1 - 658	15 - 672	AA76558, AI744905, and AI035977.
HMWFW7	3639	727236	1 - 225	15 - 239	AC004878, AC006014, AC006480, AC005488, and AC005071.
HMWGC08	3640	959838	1 - 500	15 - 514	
HMWGF22	3641	861104	1 - 351	15 - 365	
HMWGG55	3642	920575	1 - 313	15 - 327	
HMWGR55	3643	576885	1 - 362	15 - 376	
HMWQG80	3644	575822	1 - 337	15 - 351	CI6083, AR031682, and AR050617.
HMWGT07	3645	953454	1 - 946	15 - 960	R69751, R70467, H80879, H80878, H69771, AI011930, AI049835, Z95126, Z94277, Z84481, AI023279, AI022152, AC002071, AC010186, AC005303, AC004985, AI008706, AI034545, AC004825, AI033466, AC006007, and AI023379.
HMWGU64	3646	823460	1 - 415	15 - 429	AA292171, AI194002, AI291200, AW702786, AA933514, AW134516, AI570407, NS2183, AI470179, AI001560, AI565962, AI63083, AA442075, AI262533, AI992355, AA725905, AA58151, AI057281, AI350058, AT765586, AI300345, AI147602, N23467, AW083096, AI304886, AI818816, AI298938, N31044, AA442178, AA251570, AA411536, AI917092, AI084370, AI200607, W2941665, AW270856, AI298116, AI948774, AI693857, AI337892, AI216845, W92870, W35349, AW257575, R64446, AW304070, F69033, W92747, AI215812, R56870, AA854471, W32863, R63834, AI340931, AA373328, AA251002, R26470, R28480, H39705, AA737193, AA737108, H61908, and AI348059.
HMWGV63	3647	576854	1 - 224	15 - 238	AI872915.
HMWGX38	3648	709249	1 - 395	15 - 409	AW449350.
HMWGX50	3649	959293	1 - 1759	15 - 1773	AI823360, N76186, AW444682, AA199658, AI090198, AI374757, N64773, AI769715, N53704, W49400, AI026060, AI801785, AA961099, W49401, AI190947, AI287331, AI742199, AI769707, AI219372, R72390, R63399, R69629, R69723, AA064629, H18928, W73451, D20803, AA527475, AI877711, AI472100, W73390, H19390, AI064753, R63455, and AI093177.
HMWHA91	3650	684346	1 - 315	15 - 329	AA654781, AI754544, R73754, AW080183, AA584125, AA331580, R08918, AA845209, AA487726, AW081194, AA633762, AI037910, W341978, AC004690, AC019014, AI080248, U78045, AC007981, AC006120, AC004953, U41069, AC004854, AI133238, AC008062, AI021978, AI022336, AP000556, AC004805, AC005377, AC009721, AF109907, AC008018, X92412, AI021579, AI031659, AC006343, AC005144, AI022312, AC006130, U85195, AC006006, AC003102, AI035464, AC012330, AI000658, AC006146, US2112, AI022313, AI049872, AC004590, AC008132, AC008079, AC004531, Y14768, AC005887, AF129756, AC005871, AP000550, AC005752, AI032821, AC004859, AI121591, AP000557, AI034548, AC005175, AC000381, AC007421, AP000505, AC005800, AI021154, AI136295, AC004752, AC000094, AC007546, U85196, AC003663, AC007325, X69516, AP000240, Y15994, AC003950.
HMWHB03	3651	861108	1 - 371	15 - 385	

HMWHF58	3652	584538	1-424	15-438	AI035417, AC004966, AI008723, AC008115, AC005043, AC006459, AC005353, Z77249, AI009172, AC004993, AD000813, AI049765, AC004033, and AC006478, AI763355, AI911988, AW271204, AI199535, AW196356, AA831500, AA705874, AI609777, AI623267, AA825907, AI247514, AA897761, AA029912, AW088307, AA059231, AA883186, N72988, Z40302, W03289, H82082, W57671, H61166, AW264318, F01458, AI270229, AI932770, AW070350, F04303, AI318375, H93492, AI304462, AI304550, AI270299, R03209, AW369598, and R07861.
HMWHM30	3653	676413	1-320	15-334	AP000333, and AP000173.
HMWHN70	3654	851334	1-342	15-356	R19936, AI653255, AI261658, W78776, T85433, AA309754, H16895, AA132626, AA216686, AI636091, AA160797, AA312101, T69055, T35768, and AI347190.
HMWHHS25	3655	678166	1-323	15-337	AI031685.
HMWHHZ50	3656	724431	1-496	15-510	AC006427.
HMWHIA18	3657	424132	1-342	15-356	AA011418, AI264860, and AA699615.
HMWHJF10	3658	964707	1-441	15-435	AA056297, H86332, H81699, AA021646, AA828136, AA252828, AW366161, AW366143, AW366126, AW366153, AW366129, and AB032976.
HMWHL67	3659	791275	1-771	15-785	
HMWHM26	3660	681845	1-300	15-314	
HMWHQ47	3661	653198	1-364	15-378	AW236288, AF045555, and AC005081.
HMWHIS96	3662	746475	1-680	15-694	AB011167.
HMWHIT95	3663	793450	1-422	15-436	AI160190, AA226732, AA232883, AA232882, AA948725, AI079958, AA767922, AI467979, W39443, U83194, and AF121856.
HMWTL48	3664	917690	1-437	15-451	AA203110, AA465513, T96285, AI682937, and AA337698.
HMWTV48	3665	795649	1-364	15-378	AC004913.
HMWVX21	3666	670972	1-201	15-215	AA939053.
HMWVZ03	3667	924227	1-283	15-297	AB011085.
HMWVJ29	3668	668700	1-342	15-356	T24065.
HMWVJC76	3669	688926	1-393	15-407	AA300776, AA341396, AI225022, and AF030428.
HMWVJF10	3670	964705	1-339	15-353	
HMWVJG85	3671	918724	1-509	15-523	AA102161, T68018, N86357, and AF144757.
HMWVJH15	3672	757807	1-211	15-225	
HMXXAA03	3673	964494	1-60	15-74	N24413, and AA325761.
HMXXAA08	3674	959267	1-213	15-227	R16911, AI023774, AC005509, AI135960, and AI131016.
HMXXAA39	3675	670501	1-212	15-226	AI766637.
HMXXAA56	3676	733331	1-42	15-56	
HMXXAB21	3677	714384	1-122	15-136	AI908994, AI908998, AI909070, AI909069, N34111, AI908998, AA365524, AA143042,

				AI008987, AA365526, AI090065, H69944, AI090066, AI08986, W37554, AA291887, AI090072, AI049386, and AI133036.
HMXAB69	3678	661849	1-136	AI024509.
HMXAC70	3679	964492	1-138	M85519, and AC005625.
HMXAC83	3680	780385	1-105	AC004620.
HNEAB76	3681	674781	1-242	AA701643, and AI033306.
HNEAC51	3682	523767	1-422	
HNEAJ21	3683	671370	1-341	AW000777, and AI031005.
HNEAJ57	3684	735083	1-341	
HNEAK41	3685	711557	1-227	
HNEAN61	3686	507302	1-200	
HNEAN85	3687	524222	1-384	AI709236, AI219619, F18454, and AC005531.
HNEBI66	3688	529168	1-249	
HNEB008	3689	958742	1-899	AI014747, AI0371165, AI149061, AI060786, AI537814, AI111171, AC002302, AC005666, AI109798, AC004841, AC004938, AC004217, AI020597, AC004383, AI001349, AI033460, AC007216, AP000501, AC005529, AP000505, Y14768, AC004159, U62293, AI022165, U63721, Z95115, Z97630, AI049631, Z83996, Z84469, AC009516, AC000353, AC005287, AI133485, AC004634, Z84466, AC005911, AF129756, AP000049, AC007686, AC004817, AC004887, AC005332, AC006211, AP000311, U91323, AI049569, AC007057, AC005531, AC002115, AC002301, U95742, Z95152, AC005520, AC004491, AC000026, AC005355, AC004230, AI023807, AI034548, Z73359, AI031311, AP000689, AI031657, AC002059, Z95116, AC008044, AC007993, AP001065, AC004876, AC005581, AC005102, AI022721, AC005071, AC008018, AC005765, AF121781, AC005781, AI035414, AP00215, AI022326, Z97056, AP000350, AI035685, AC004985, Z97053, AC005871, AC004000, L78810, AC005005, AC006101, AC005803, AI049699, AI022163, AB003151, AC004765, AC002425, AI109984, AC004020, Z98031, AC009247, AC005585, AI033659, AI096763, AC004966, AC004685, AI049872, AC008372, AC004750, L44140, AC005527, D87675, AC007384, AC002430, AC002544, AP001052, AC002369, AC004832, AP000039, AP00107, AC005280, AI022323, AC002073, AC006450, AI133163, Z99128, AI031650, AC005620, AI023575, AC004228, AC004991, Z98730, AC006538, AP000047, AI096791, AI021393, AC002299, AC005722, AI132987, AC005815, AC005037, AF107885, AP000498, AC003982, AC005200, AC005777, AC007421, AC005261, AC005086, AC004656, AI034417, AC002477, AC006057, AI049856, AI008721, AC002551, L78833, and AC005952.
HNEB35	3690	529576	1-303	15-317
HNEB48	3691	919274	1-515	15-529
HNEB007	3692	954173	1-637	15-651

HNEBY19	3693	527894	1 - 341	15 - 355	
HNEBY26	3694	527891	1 - 318	15 - 332	
HNEBY30	3695	523571	1 - 316	15 - 330	
HNEBY32	3696	527889	1 - 392	15 - 406	AA047509, AA640294, AA743885, and AA714682.
HNEBY34	3697	507211	1 - 483	15 - 497	AB02200.
HNEBY44	3698	773793	1 - 422	15 - 436	
HNEBY46	3699	527887	1 - 395	15 - 409	AC006006.
HNEBY48	3700	527895	1 - 308	15 - 322	AL021977.
HNEBY71	3701	527883	1 - 245	15 - 259	
HNECD65	3702	861062	1 - 511	15 - 525	
HNECEB07	3703	954094	1 - 370	15 - 384	
HNECEI14	3704	927590	1 - 94	15 - 108	
HNECF59	3705	507208	1 - 102	15 - 116	AL017707, AT733033, and AC006001.
HNECF76	3706	506532	1 - 326	15 - 340	
HNECF157	3707	529873	1 - 165	15 - 179	
HNECK47	3708	720588	1 - 331	15 - 345	
HNECK66	3709	932501	1 - 374	15 - 388	AC002073.
HNECK67	3710	527100	1 - 398	15 - 412	AA836909.
HNECK83	3711	935045	1 - 684	15 - 698	
HNECL71	3712	527810	1 - 221	15 - 235	
HNECM64	3713	861031	1 - 289	15 - 303	T79573, AA525832, AA381390, AD007738, AA503018, AL039801, T79503, AA601713, AB62790, AA319995, AA856945, AA381962, AL434365, H23540, AA223512, AA297145, AA629852, AA765678, AA487892, AA829576, Z84487, AL050348, AT229041, AL136295, AL133312, AC002302, AL022336, AC004638, AC004698, AC005003, AC004910, AL136295, Z93016, AC004526, AC003003, AL031680, AC002389, AC005037, AC002378, AC007226, AC006160, AL031668, AL121655, AL008583, AL031602, AL035071, AL121658, AC002390, AC000159, AC003378, U73023, AC002350, AP000511, AC000403, AC001231, AL121653, AC004882, AL050307, AB023051, U47924, AL009181, AC005212, Z82208, AF196969, AC005102, AC006509, AC007537, AC004212, AC006064, AF015720, AC006512, AP000512, AC004922, AL031281, U32112, AL022396, AL031230, AC007159, AC003859, AL034553, AC007308, AC005874, AF134471, AC004865, AC002470, AC007283, AC002544, AC004985, AC000113, AC006030, AC005529, AC012083, L48038, AC005225, AC007731, AC005500, AL031432, AC007668, AC007690, AC005332, AC005089, AL024507, AC006649, AP000504, AF129756, AC004382, AC005344, AL022238, AC004448, AC005399, AC006065, AC002375, AC006262, AD000812, U91326, AD001527, AF111168, AB003151, AC006681, AC004491, AL049636, AC004694, AC006084, Z73417, AC005881, AC013111, U80017, AC005386.

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HNEED29	3747	703032	1 - 221	15 - 235	
HNEED01	3748	909832	1 - 403	15 - 417	
HNEEA41	3749	868102	1 - 264	15 - 278	
HNEEB62	3750	573185	1 - 441	15 - 455	
HNEEB84	3751	781940	1 - 211	15 - 225	AL133037.
HNEEC81	3752	844318	1 - 352	15 - 366	AL031729.
HNEED12	3753	893698	1 - 583	15 - 597	AL284640, AL246796, AL133164, AL434695, AL564185, AL431303, AL119984, AL334443, AL286356, AL053672, AL471481, AL754955, AL408717, AL207002, AL488746, AL491814, AL587583, AL587565, AL602537, AL1196991, AL00167, AL041706, AL62049, AL301350, AL029531, AL499938, AL281881, AL303196, AL440299, AL274349, AL079645, AL537955, AL569086, AL041146, AL191265, AL037897, AL171941, AL753037, AL064864, AL79504, AL366902, AL008317, AL064729, AL680243, AL192631, AL038842, AL177061, AL371070, AL046898, AL713815, AL633025, AL138455, AL419262, AL579063, AL282336, AL75026, AL021583, AL36273, AL587256, AL446464, AL502155, AL761471, AL732120, AL632648, AL226153, AL674873, AL469172, AL148277, AL339850, AL720070, AL238278, AL251021, AL334435, ALF50152, AL962050, AL143242, AL758934, AL75034, AL707788, AL610159, AL507547, AL022279, AL7168342, AL362573, AL138265, AL679782, AL272738, AL871722, AL120687, AL714453, AL5359290, AL567674, AL079910, AL270476, AL581903, AL7007759, AL120687, AL120959, AL273218, AL386111, AL302963, AL77858, AL434311, AL045053, AL830390, AL177063, AL801701, AL654525, AL039958, AL928898, AL107160, AL754653, AL708678, AL073470, AL631507, AL046205, AL569387, AL358571, AL367975, AL473943, AL005594, AL005393, AL009516, AL005940, AL005338, AL006263, AL007727, AL031311, AL005529, AL006277, AL006241, L44140, AL003003, AL005666, AL004491, AL007999, AL135744, AL033392, AL009961, AL005231, AL005778, AL006536, AL133448, AL00501, AL132994, AL005799, AL022323, AL035494, AL008721, AL001152, AL049843, AL196779, AL008718, AL84394, AL004472, AL005105, AL006088, AL002429, AL132777, AL004596, AL005046, AL008039, AL005701, AL196969, AL117238, AL008582, AL004492, AL023381, AL005893, AL004492, AL005387, AL002126, AL005154, AL005971, AL006784, AL002996, AL006283, AL0096707, AL000049, AL000562, AL003681, AL005740, AL031770, AL002404, AL049539, AL000311, AL005839, AL080274, AL002312, AL049776, AL021391, AL005180, AL001550, AL003914, AL000047, AL022322, AL021453, AL031597, AL005696, AL008125, AL132987, AL004158, AL000555, AL005244, AL109628, AL016025, AL000649, AL005212, AL004650, AL000310, AL007066, AL031650, AL006666, AL004386, AL797054, AL002425, AL031668, AL006017, AL020663, AL000509, AL004825, AL006048, AL008004, AL006120, AL004690, AL005531, AL005828, AL003085, AL006138, AL004263, AL031848, AL008055, AL004253, AL85195, AL91326, AL133512, AL006128, AL004652, AL005412, AL007649,

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HNEED48	3754	668747	1 - 563	15 - 577
HNFAA13	3755	667712	1 - 460	15 - 474
HNFAA80	3756	781578	1 - 398	15 - 412
HNFAA83	3757	530295	1 - 299	15 - 313
HNFAAD95	3758	784714	1 - 726	15 - 740
HNFAE07	3759	861069	1 - 347	15 - 361
HNFAF40	3760	861021	1 - 305	15 - 319
HNFAAG69	3761	530349	1 - 163	15 - 177
HNFAH45	3762	662053	1 - 370	15 - 384
HNFBBS1	3763	530064	1 - 206	15 - 220
HNFBT11	3764	967784	1 - 218	15 - 232
				C05828, AW363343, C05733, W48575, AA581240, AL299442, AL871940, AA121886, AL869406, AL133355, AL133609, AA360082, AL015119, N32218, AA669165, AL828488, AC0035318, AL611960, AL583255, AL884667, AA863595, C05928, AA601356, AC006057, AC003518, AC000815, AL133243, AL096703, AC005179, AC005666, AC007919, AC007066, AL049697, AC002044, AC007016, AC002094, AC007385, AC007051, AC007395, AP000306, AC004019, AC005622, AL035087, AC005484, AC005484, AC004963, AF217403, AD000812, AC002126, AC005251, AC002357, AL034548, AC006571, AC004755, Z97876, AL031123, Z84488, AL117339, AC004447, AC008372, AC002565, AP000047, AC004659, AC006011, AC005409, AC005412, AC006479, AC004049, AP000557, AC005838, U91328, U95742, AP000115, AC005003, AL049749, AC005231, AL035405, AC009399, AC003071, AC003072, AL109952, AC004913, AC004655, AF047825, AC005358, AC007308, AC004382, AL031075, AL031120,

HNFB53	3765	861015	1-347	15-361	AC005304, Z98257, AC004924, AC004099, AC005913, AC007367, AR036572, AC006120, AC004582, AP000359, AC005095, AC005911, AC007376, AL109827, AC005803, AC004854, AP000501, AC006511, AL022776, AC003049, AC004517, AC005829, U96629, AC005255, AL022315, Z83732, AC004929, AC004622, D84394, AC007216, AC009247, AC003065, AC004837, AL117338, and AP0053336.
HNFC132	3766	699706	1-124	15-138	
HNFC141	3767	861014	1-723	15-737	AC004126.
HNFC177	3768	761390	1-428	15-442	F15202, AA297666, AA621381, AA713814, A1244157, AC002468, A1006997, AC004099, AC007774, AL024507, AL034417, AL049829, AP000194, AC005844, AC006341, AL133245, AC004953, AL133246, AC005730, AC004019, AL121652, AC006387, AC007994, AC006441, U85195, Z98304, AE000658, AL133244, AC002456, AL139054, AL022323, AL035420, AP000116, AC000052, AC004531, AC004967, AC005231, AL020997, AC005668, AC002365, AP000313, U91326, Z83844, AP000117, AC007055, AP000030, AL096701, AC004453, AC004209, AL109984, AC007227, AC005037, AL031228, AC006371, AC004383, AL031186, AP000689, AC004626, U91323, AF134726, AC005264, U96629, AB003151, AF196779, Z82198, AC005914, AC004686, and AP000501.
HNFL68	3769	585328	1-108	15-122	AL022098.
HNFC504	3770	977836	1-405	15-419	AA743885, AA714682, AA748749, AA047509, AA969497, and AA649294.
HNFC727	3771	529964	1-397	15-411	AL079300.
HNFC167	3772	927833	1-217	15-231	
HNFCW14	3773	955293	1-367	15-381	AC002091.
HNFCY33	3774	861005	1-485	15-499	
HNFC21	3775	529867	1-298	15-312	
HNFC91	3776	496241	1-503	15-517	
HNFD117	3777	960239	1-451	15-465	H67844, and AL031282.
HNFDK40	3778	854017	1-475	15-489	AC006441.
HNFDN04	3779	573717	1-450	15-464	N24949, and N21519.
HNFDN41	3780	712571	1-375	15-389	Z98884.
HNFDN89	3781	787085	1-173	15-187	AC006285, AC007845, and AC016025.
HNFD081	3782	573741	1-256	15-270	
HNFD084	3783	575347	1-425	15-439	AA651846, AA287087, AC007193, AL008721, AC007228, and AC007283.
HNFD099	3784	719215	1-374	15-388	AC007308, AP000557, AP000556, and AC004983.
HNFD35	3785	527500	1-208	15-222	AL008729.
HNFD383	3786	537343	1-264	15-278	
HNFDV41	3787	537337	1-407	15-421	



HNFE022	3788	537334	1 - 103	15 - 117	AI692459, AW025274, AI912748, AI625788, AW135287, AI268722, AW137005, AI983277, AW235753, AD000864, and AC002133.
HNFE043	3789	583458	1 - 703	15 - 717	AA248418, AC009955, R98152, AA031428, AA592915, AI732656, AI904111, AC002485, AC004897, AI021786, AC004935, AC004015, AC003682, AI035089, AC006145, AC008168, AC005533, AC008014, AC002357, AI049613, Z68331, AP000403, AI031782, AI035424, AI049734, and AC003378.
HNFE043	3790	424792	1 - 331	15 - 345	
HNFE083	3791	850982	1 - 502	15 - 516	
HNFE095	3792	971171	1 - 814	15 - 828	
HNFE009	3793	526641	1 - 265	15 - 279	
HNFE031	3794	934595	1 - 384	15 - 398	AA490873.
HNFE012	3795	825406	1 - 134	15 - 148	AF196970, and AF115549.
HNFE012	3796	518245	1 - 95	15 - 109	
HNFE033	3797	957396	1 - 516	15 - 530	
HNFE076	3798	860967	1 - 426	15 - 440	AW340916, AA766845, L18125, and AC004749.
HNFE086	3799	537336	1 - 234	15 - 248	
HNFE020	3800	669916	1 - 463	15 - 477	
HNFE061	3801	530355	1 - 232	15 - 246	AA777291, AI476328, AC004409, AC004825, AC004081, Z98742, AC004207, AP000515, and AB014083.
HNFE089	3802	787086	1 - 361	15 - 375	
HNFE044	3803	860920	1 - 350	15 - 364	
HNFE062	3804	574598	1 - 74	15 - 88	AC004914.
HNFE041	3805	575549	1 - 207	15 - 221	AI954737.
HNFE066	3806	575552	1 - 99	15 - 113	
HNFE021	3807	671263	1 - 425	15 - 439	
HNFE021	3808	574693	1 - 401	15 - 415	
HNFE088	3809	577422	1 - 331	15 - 345	
HNFE081	3810	574678	1 - 55	15 - 69	
HNFE079	3811	781093	1 - 178	15 - 192	
HNFE003	3812	921923	1 - 461	15 - 475	
HNFE044	3813	574679	1 - 266	15 - 280	
HNFE048	3814	860311	1 - 379	15 - 393	
					AI043721, F24284, AI043756, AI561335, AI880168, AI697353, AA715270, W25284, AI865905, AI120008, T62712, AW169397, AI133723, AI914706, AA669416, AW238278, AI305547, AI307201, T11542, AA548137, AI473090, R65801, AI371070, AI138344, AW055226, AW088846, AA019707, AW238016, AI205181, AI118991, AA669961, AI082510, AI291823, AI312790, AI039809, AI336054, AI689385, AI355587, AA580662, AW327961, AW327960.

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HNFFK15	3815	920748	1 - 194	15 - 208	AC007283.
HNFFK36	3816	529978	1 - 303	15 - 317	
HNFFK61	3817	740644	1 - 351	15 - 365	AA489127, AA279641, AC004883, AF184614, U57835, U61240, U61244, U69072, Z95331, AC005529, AC006026, AL008726, AL031985, AC000353, AC004876, AC005082, AL023882, U85195, and AC005327.
HNFFM25	3818	705856	1 - 798	15 - 812	AA100734, H70404, AB07620, AW170393, A1148673, A1700503, A051537, A1372906, A1978898, A135972, AA377153, AA683135, AH18406, AW027328, AA804574, A1149104, AA040055, A1375779, AW083779, AA948638, AA922646, A1421626, A1086894, H41004, W67241, R80971, H45696, AA454614, A1336304, R50491, R70331, H04883, H48164, H50348, R71660, AA350063, H14248, AL000283, AA158079, A1873952, AA935502, H04767, AA488228, R71772, A1185581, H03390, AW085023, AA953342, N30114, AA330664, AA330336, T47929, R71761, AA350333, AA380748, R80075, AA330335, AA558800, A1498026, H28008, AW247533.

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					AL631960.
HNF061	3819	742049	1 - 329	15 - 343	AA659360, AA689255, AA862243, AW338370, AA773162, AL120343, AA167792, AA833896, AA833875, AA494263, AA503119, AA3594072, AP10608, AD950671, AA568494, AL174535, AW002777, AA608612, AT733836, AA828062, F15883, AT754653, AW082076, AA179219, AA608588, AL114827, AA251356, AL581486, AA631933, AW070703, AL601229, AA355083, AL300167, AL306232, AA480792, N71033, AW118304, AA188664, AA847096, AL120227, AA826302, N33867, AW402688, AL500453, AL537041, AA678565, AA635368, AL362415, AL364809, AL134608, AA613624, AA338167, AA492105, AA984114, AA811208, N84446, AA640410, AA640430, AA358515, AD245679, AD54354, AA489766, AA613954, AW167374, AA522642, AL924855, AA499954, AL865196, W033818, AA689285, AL583466, AD251576, AL038971, AA843779, R08918, AW274191, R44855, AW150476, AA421078, AL099588, AA054055, AL708005, AA366458, AW195988, AL134519, AA381247, F28352, H67863, AW001268, AA808186, AL469599, AA354259, AL088162, AL536625, AD23700, AW265244, AA654661, AL133332, AT745335, AB357551, AW265009, AL597580, AA745373, AA503298, AA594043, AL610737, AL042927, AA780784, AA071393, AA677671, AL040051, AL188390, AL282793, T07769, AL041894, AA904211, H18914, AA972809, AA984171, AA340602, AL270370, AA679194, N22037, AL253382, AW265186, AL042225, AL135352, AL978718, AL054414, AP914879, AC002331, Z92542, AC004020, AL035685, AC005722, AL021154, AL133445, AC005570, AC007546, AC004216, AL031734, AC005701, AC005510, AL079305, AC002558, AC005071, Z85996, AC0089721, AC005670, AL034376, AF001548, AC004976, AC004253, AC007590, AC007746, AC009589, Z78421, AB026898, AL035106, Z98886, AC005747, AL079333, Z82198, Z85987, AC003101, Z97353, AC004000, AL035652, AC005279, AC005751, AC005317, AP000260, AL034375, Z98941, AL049760, AL109754, AL035348, AL035400, AL049691, AP000499, AC005091, AL008709, AC007278, L28795, D83729, Z99756, AP000099, AL024508, AF015262, AC002070, AL729043, AC007879, AP000146, AC002351, AL035694, AL034371, AC006549, AC006960, AL031280, AP000036, AC006925, AC006241, AF130248, AL035658, AL031294, AC007159, AC005192, AL031055, AL021528, AC007221, AC003664, AC005668, L78810, AL009029, AC010206, AC006571, AL049759, AP001051, AC004912, Z97196, AL022324, AC003667, AC005026, AC006043, AC008119, Z97192, AC004884, AC005296, AC006315, AC010077, AL035251, AC009225, AC007514,
HNF076	3820	727306	1 - 323	15 - 337	
HNF005	3821	860851	1 - 406	15 - 420	

					AC005873, AL035587, AL023453, AC004125, AC006080, AL008712, AL049773, Z75741, AC008125, AL049712, AL034400, AL078384, AC004089, AC005029, AC006333, AC004865, AC007682, AL022394, AC007738, U91319, AC003958, AF111167, AL049792, AC007277, AL031117, AC005796, AC004673, AL031673, D16583, AL022334, AC005291, AC003371, AL079301, AC002302, AL133500, AC003086, AL022159, AC007540, AC008041, AL229042, AL031778, AC007664, AC002551, AC006560, AP000469, AC018767, AC003663, AC004526, AC007240, AC003689, AC007559, AC008040, AL022312, AL031665, AC006126, AC007774, AL049829, AL008770, AC005900, AC007773, AL132800, AC002054, AC002472, AL050336, AL080245, AL020866, AC006977, Z98749, AL022337, AL050333, AC006132, AL031666, AC006503, AF134726, AC002407, AL031293, AC004538, AL031595, AC006984, AC005363, AP000503, AF134726, AC005215, AF000223, AC005099, AC004106, AC002460, AL121578, AP000069, AP000502, AL133244, AC006020, AC005746, AC008101, AC006384, AL031466, AC005243, AC006088, AC010200, AC005224, AC006972, AL023882, AC0016830, AC004810, Z95115, AL035690, AC007539, AF048729, AL031277, AL133247, AC005041, AC006323, AL035425, AC007649, AC004953, AP00076, AC000088, AC000082, AC00071, AC004905, AC005725, AL079303, AC005018, AC003969, Z98949, AL135744, AP000032, and AC005412.
HNFFR46	3822	574618	1 - 149	15 - 163	M89651
HNFFS14	3823	558192	1 - 296	15 - 310	AC004782
HNFFS23	3824	574677	1 - 300	15 - 314	AL078644
HNFFS46	3825	574669	1 - 294	15 - 308	
HNFFS96	3826	860904	1 - 88	15 - 102	
HNFFT30	3827	574616	1 - 425	15 - 439	AA345805, AB007864, and AC000159.
HNFFT62	3828	574623	1 - 390	15 - 404	
HNFFT71	3829	574617	1 - 445	15 - 459	
HNFFT83	3830	506711	1 - 443	15 - 459	Z82215
HNFFV05	3831	932364	1 - 362	15 - 376	AA689285, AL732151, AW068996, AW069783, AA228824, AA297802, AL031291, AL121825, AL022337, AC002527, AC004985, AC005544, AC005102, AL050318, Z97200, AC007676, AC002456, AC004927, AC007617, AC005291, AL022330, AC005781, AC002994, AC007878, U91326, AF109907, Z95116, D87675, AC004752, AC004099, AC002558, AC005365, AC005874, AF134471, AC002425, AC004106, AC004832, AC004673, AC004797, AL117238, AL0305079, AC007388, AC006480, AL080317, AC006088, Z84466, AL031846, AP000694, AC016027, AL031311, AC016830, AC006312, AL035587, Z93020, AL021155, AC008079, AC006538, AC004820, AC008018, AL034379, AL13246, AL031657, AC005332, AC002465, AC006449, AC004814, AC004876, AC005971, and AC005520.
HNFFV66	3832	574153	1 - 309	15 - 323	
HNFFV73	3833	574143	1 - 347	15 - 361	

HNPFEX21	3834	574217	1 - 393	15 - 407	AA632593, AA612727, AI801505, AA838091, W02419, AA584862, AL049845, AI871667, AA947352, AA610255, AL121287, AA857812, R79235, AA829036, N95156, AI282629, AI243789, AI870453, AW070532, AA493789, AA054156, W02749, AI285493, AA558748, AA715173, AA715075, AI216990, AA275406, AW272294, AA715955, F35374, AA302690, AI587467, AW023111, R93919, AC002430, AC007384, AC005484, AC004477, AF196779, AC006581, AC005920, AI109628, AC005722, AF001530, AF129756, AC004000, AC005694, AC004263, AP000034, AL049869, Y18000, AC005527, AC003119, Z95115, AC005071, AC004955, AC005529, Z98749, AC007934, AC007546, AC006026, Z82190, AL133382, AL109827, AL133246, Z97832, AP000501, AC005317, AC005412, AL050318, AL109758, AL133312, AC003108, AL024498, AC006992, AC005538, AF111167, AC005237, AC002310, AC004878, AC002996, AC005988, AC002470, AP000131, AP000209, AL031291, AL022336, AC007225, AC004517, AC004232, AC004953, AC004148, AC005231, AC002301, AC006946, AC004890, AC006121, AP000248, L78810, AL1139054, AC008154, AC006449, AI109627, AC006071, AC003046, AC004216, AC006430, AC005821, AF109907, Z83840, AC005049, AP000552, AC005736, AC008372, AF207550, AC005746, X54486, Z98200, AC005740, AL033521, Z98884, AC004230, AL008725, AC007450, AP000505, AF030453, AC007114, AC006001, AP000703, AL020993, AL035413, AC005088, AL009181, AC005225, AL024474, AC005690, AC005971, Z97053, AC000025, AC006208, AL009179, AC007371, AL034553, U89335, AC007024, AC005695, AC004242, AC007690, AC004896, AC005316, AC004973, AL031767, AF124523, AC007664, AC002545, AC007421, AC003004, AC005034, AC004832, AL109952, AC007283, AC007357, AL031311, AC020663, AL023553, AC006017, AL0049843, AC004099, AF047825, AL035405, AC002551, AC006511, AC006312, AF141309, AL004139, AC004383, AC005702, AL031431, AC004686, AC005921, AL080317, Y14768, AC005519, AL031665, Z84469, AC002302, AB023050, AC005377, AC004131, AL021391, AL049795, Z99291, AL031680, AF200465, AC005037, AL133353, AC004236, AP000101, AC003029, AC005841, AC006211, Z97054, AC009275, AC007227, AL135744, Z82243, AC004802, AL022069, AC002553, AF196969, AC006141, AC007686, AC006515, AL078639, AC005004, Z95114, AC005089, AF031078, AL031664, X54156, U94788, AL049229, AC007899, AC006057, AC010170, AL035249, AC003982, AC007011, Z68273, AC004757, AC007237, AL020997, AP000511, AF030876, AI009610, AL049631, AL031597, AC005768, AL117694, AL035443, AL031005, U91323, Z98304, AP000116, AC009294, AL049776, AC0023879, AC002350, U62293, AC005057, AL0016025, Z98050, AL033527, AL031729, Z83844, AC007021, AL035685, AL021997, and Z75407.
					Z85996.
					AC005610.
					AA442241.
HNPFEX55	3835	574218	1 - 447	15 - 461	
HNPFEX79	3836	574152	1 - 358	15 - 372	
HNPFZ53	3837	526845	1 - 431	15 - 445	
HNPFZ89	3838	913701	1 - 987	15 - 1001	

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HNFGB37	3840	577342	1 - 292	15 - 306	Z95118.
	HNFGC17	3841	860899	1 - 435	
	HNFGC46	3842	967538	1 - 309	AA639859.
	HNFGC53	3843	860900	1 - 615	AA702690, AL570659, H58517, and AC005318.
HNFGC57	3844	782183	1 - 427	15 - 441	

HNFGC64	3845	851981	1 - 440	15 - 454
HNFGB16	3846	781720	1 - 303	15 - 317
HNFGIE36	3847	649992	1 - 566	15 - 580
HNFGF83	3848	526843	1 - 349	15 - 363
HNFGH24	3849	524419	1 - 328	15 - 342
HNFGH71	3850	954601	1 - 404	15 - 418
HNFGI01	3851	921431	1 - 660	15 - 674
HNFGI49	3852	909707	1 - 285	15 - 299
HNFGI84	3853	763204	1 - 248	15 - 262
HNFGI93	3854	526534	1 - 283	15 - 297
HNFGK28	3855	574599	1 - 321	15 - 335
HNFGK29	3856	574593	1 - 221	15 - 235

HNFGK39	3857	574592	1 - 225	15 - 239	AL031005.
HNFGJ31	3858	420241	1 - 469	15 - 483	
HNFGI94	3859	709264	1 - 138	15 - 152	AC005071.
HNFGN40	3860	524398	1 - 357	15 - 371	AT758365, R25772, A1199589, AA063339, AW410939, AA101566, A1828038, A1743331, AW294803, AD90537, A1907224, A1990873, A1636883, A1907223, AA781736, and A1479878.
HNFGM61	3861	750800	1 - 294	15 - 308	AW239189, AW327701, AA206129, A1048272, AW239069, AA352871, AA310523, AA295649, AA481822, AW384095, AW384998, H93967, R48716, AA434007, AW376413, H25589, T54238, R74215, H30574, AW404846, AFI49291, and D21261.
HNFGM76	3862	908665	1 - 868	15 - 882	A1860139, A1738678, AW149459, A1943379, A1490859, A1879584, A1475610, A1094142, A1057183, AW051629, AW136472, AW293272, A1886866, A1825816, A4236872, A1189241, AA927552, A1084187, AW250159, R71853, A1523638, AFI50628, and AFI32599.
HNFGN36	3863	575567	1 - 635	15 - 649	AA085530, AA278791, and A1961765.
HNFGN60	3864	574588	1 - 322	15 - 336	Z59518.
HNFGP07	3865	953915	1 - 522	15 - 536	
HNFGP31	3866	574643	1 - 113	15 - 127	AL135009, and AF053630.
HNFGP64	3867	932413	1 - 719	15 - 733	AW117576, AA648940, AA814664, and AA749041.
HNFGQ23	3868	750597	1 - 370	15 - 384	AL035530.
HNFGQ58	3869	574583	1 - 300	15 - 314	
HNFGU56	3870	574587	1 - 353	15 - 367	
HNFGW96	3871	915309	1 - 753	15 - 767	H24136, R25934, Z45244, and A1214671.
HNFGX55	3872	795918	1 - 722	15 - 736	T89765, and T84142.
HNFGZ03	3873	924695	1 - 486	15 - 500	AT765111, and AC006953.
HNFH11	3874	967520	1 - 436	15 - 450	
HNFH40	3875	707875	1 - 468	15 - 482	
HNFH18	3876	666827	1 - 300	15 - 314	
HNHFH32	3877	699518	1 - 310	15 - 324	
HNHFH33	3878	574146	1 - 397	15 - 411	
HNHFH53	3879	574148	1 - 338	15 - 352	
HNHFH35	3880	574684	1 - 222	15 - 236	AL034375, and AC002326.
HNFH12	3881	968808	1 - 250	15 - 264	
HNFH31	3882	574697	1 - 304	15 - 318	
HNFH33	3883	574703	1 - 348	15 - 362	
HNFH35	3884	523646	1 - 299	15 - 313	
HNFH88	3885	521932	1 - 116	15 - 130	M62505, AC003007, and AC005632.
HNFH17	3886	523569	1 - 214	15 - 228	
HNFH10	3887	964802	1 - 340	15 - 354	AC006953.



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HNFS84	3902	725666	1 - 433	15 - 447	
HNFS85	3903	576118	1 - 299	15 - 313	
HNFHU20	3904	512927	1 - 743	15 - 757	M79201
HNFHU27	3905	683506	1 - 320	15 - 334	AA281626, AA626747, AA744220, AW406447, A1281903, AA736472, AA652057, AA649642, AA598977, AA125788, AA095511, AW088038, AW074207, AA947370, AL042420, AL571512, TU7324, AA553604, A1296694, AA836275, AA494163, AA151807, AA831388, AA338522, AW448507, A1281881, AC011311, AC006581, Z95329, AC004526, AL135744, AC004963, AL021707, AP000500, AC005303, AC002090, AF055066, AP001137, AF196971, AF067844, AC005703, Z99570, AC008179, AC004858, AL049869, AF130343, Z72522, AL021878, AF205588, AC004531, AC005994, L29074, AC007050, AC006026, AC006213, AL121603, AL133238, AF109907, AF053356, AL096701, Z69921, AC004991, AC016025, AC004647, AC006356, AC016026, AL034402, AC005971, ZP000348, Z82184, AC006071, Z85986, AC000052, U44395, AP000552, AF087510, AC005531, AF049893, AL031584, AL033521, AC006285, AC004765, AB026899, AC007845, AC007066, AL121638, AC020663, AC005102, Z53023, Z80017, AL031257, AC004041, AL121877, AL022333, AP000133, AP000012, L48473, Z83820, U98008, AC006313, AL031589, AT246003, AC003029, AC002310, AC004033, AF165926, U50429, AL035071, AL022322, AL049759, AC003684, AC006312, AC006064, AC002425, AP000556, AC007919, AL080243, and AL031431.
HNFHU85	3906	506309	1 - 364	15 - 378	AL138162, and AC004490.
HNFHV81	3907	766220	1 - 396	15 - 410	AA186965, R74512, Z42358, and A1904695.
HNFWH14	3908	939763	1 - 522	15 - 536	
HNFWH40	3909	577110	1 - 302	15 - 316	W21388, D89870, AC004152, and Z58159.
HNFWH70	3910	757261	1 - 303	15 - 317	AA228901, T89776, T71470, and Z83844.
HNFWH81	3911	577329	1 - 394	15 - 408	
HNFXH24	3912	934305	1 - 627	15 - 641	AA682722, AA579680, AA995482, and H60525.
HNFXH44	3913	716852	1 - 279	15 - 293	AF072099, and AC008984.
HNFXH29	3914	860879	1 - 569	15 - 583	
HNFAI33	3915	861010	1 - 280	15 - 294	AB017919.
HNFB47	3916	523438	1 - 305	15 - 319	AC007032.
HNFB67	3917	577326	1 - 111	15 - 125	
HNFC22	3918	577442	1 - 345	15 - 359	AL031283.
HNFC43	3919	707264	1 - 371	15 - 385	AW276703, and AC005280.
HNFEI18	3920	576032	1 - 212	15 - 226	AC005095.
HNFI07	3921	918389	1 - 465	15 - 479	AC002091, AR026676, AC003695, Y10742, and AR026672.
HNFIH79	3922	576143	1 - 251	15 - 265	AO88952.
HNFI46	3923	919275	1 - 579	15 - 593	

HNFIK03	3924	921051	1 - 276	15 - 290	AL049553.
	3925	576151	1 - 223	15 - 237	
HNFIK37	3926	657201	1 - 421	15 - 435	T47739, N27353, AA084070, F35659, AL120343, AL051436, AL131166, AL048925, AC005015, AL035587, AL022237, AL031584, AP001035, AL096712, Z82214, AC003959, AC005519, AC007738, AL031296, AC001231, AL121603, AL109654, AL049776, AC000134, Z98752, AP000151, AC006965, AL096766, AC006984, AC005011, AC010849, AL049837, AC002059, AP000513, AL109984, AL035422, AC004596, AL021392, AC007387, AL023050, N96326, AC004799, Z82179, AL035450, AC005414, Z94865, AC005542, AL049836, AC008967, AC011422, AC006354, AC002350, AP000555, AC005822, AC003080, AC007652, AL096774, AP000080, AL122020, AC005988, Z97055, AC008134, AP000018, AP000692, AC004821, AL109620, AC007993, AP000159, AC005081, AL022160, AC004144, U91319, X14448, AC005354, AC005003, U78027, AC005608, AC007285, and AL049757.
HNFIK44	3926	506258	1 - 425	15 - 439	AC004149, and AL049759.
	3927	657201	1 - 421	15 - 435	
HNFIK13	3927	657201	1 - 421	15 - 435	AL035865, AC003864, and AC004687.
	3928	661500	1 - 259	15 - 273	
HNFIK16	3928	661500	1 - 259	15 - 273	AC004001.
	3929	702415	1 - 431	15 - 445	
HNFIK33	3929	702415	1 - 431	15 - 445	I44517.
	3930	740372	1 - 429	15 - 443	
HNFIK60	3930	740372	1 - 429	15 - 443	
	3931	574569	1 - 551	15 - 565	
HNFIK67	3931	574569	1 - 551	15 - 565	
	3932	779925	1 - 456	15 - 470	
HNFIK23	3932	779925	1 - 456	15 - 470	
	3933	573095	1 - 447	15 - 461	
HNFI027	3933	573095	1 - 447	15 - 461	
	3934	724374	1 - 449	15 - 463	
HNFI080	3934	724374	1 - 449	15 - 463	AB007864, and AC000159.
	3935	921037	1 - 196	15 - 210	
HNFI082	3935	921037	1 - 196	15 - 210	
	3936	965283	1 - 1489	15 - 1503	
HNFIK50	3936	965283	1 - 1489	15 - 1503	
	3937	965283	1 - 1489	15 - 1503	

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HNFI071	3937	760366	1 - 427	15 - 441	R61153, AC007845, AC016025, AC016026, Z79966, Z56830, and Z56829.
HNFI017	3938	768043	1 - 427	15 - 441	AC000139, and AB007864.
HNFIQ74	3939	765566	1 - 122	15 - 136	AL160511, AL1970612, AL129933, AL088792, AW340706, AL445737, AL139728, AW129405, AW029494, AA431754, AA481465, AW072683, AA587221, AA305489, AW273074, AA306890, AL624922, AW117722, AA716154, AL582747, Z23212, AL362727, N48805, AA477767, AL520233, AA152108, AA423028, AA812974, AL147376, AL669656, AL184855, AW168381, AL197947, AW136145, AW002763, AW191986, AA477877, AL524288, AL928763, AA233879, AL804827, AA487203, AA740454, AA230195, AA157560, AA486843, AA157958, AL556982, AW054932, AL445690, AL521047, F42427, W42636, AL556995, AA873861, AW275822, AL692224, AL142386, AA805596, F10109, AA833930, AW084015, AA720949, AA443114, AA813801, AW016711, AL197917, AW024764, AW117703, H06723, R27339, H10925, AW083223, R36994, R76673, AA299538, F10656, AA230236, AA687564, AW083394, R27308, AW088939, and AL1590774.
HNFI32	3941	848254	1 - 459	15 - 473	AL031005.
HNFI86	3942	781175	1 - 427	15 - 441	AL031005.
HNFI51	3943	725648	1 - 362	15 - 376	
HNFI731	3944	697961	1 - 120	15 - 134	
HNFIU07	3945	953268	1 - 309	15 - 323	N43757, AA450199, AA085023, AW169151, AL921649, AL1767100, AW074059, AL1356904, AL922654, AL564284, AL16537, AL570138, AW080120, AA491284, AA723272, Z22059, AL1374809, AL1564809, AL1850652, AL157551, H71429, H50727, AA488395, Z78550, AP956124, AF108009, W85752, R99385, AA578154, AA346458, AA829106, AL110223, AC005089, AC006249, AC000084, U63313, AC002491, U07562, AL1035608, AC005663, AC003957, AC005664, AC004866, AC000114, Z29754, AL049843, AB032980, Z97183, AC004623, AC003042, AL024508, AC005354, M62424, AB025392, Y13921, AL110121, Z68870, AC005331, AC005199, AP000265, AC002984, AC005953, Z81314, AC005206, AC006958, AL096794, Y14768, Z83313, AC005567, AP000101, AP000505, AP000034, AL031775, AL049748, AL035701, AC005681, U83198, AC007666, AC004671, AC003598, AC006013, U96409, AL022170, AL023228, AC007773, AP000567, AC000052, AF064857, AC006312, U96409, AL002302, AL109984, AC004851, AC009784, AC002044, AC003458, AC004455, AP000154, AC00052, S42659, Y17077, M87923, and AP000102.
HNFIU14	3946	967558	1 - 314	15 - 328	AL031276.

HNFIU24	3947	677178	1 - 380	15 - 394	AC002091, and AC003695.
HNFIU56	3948	733363	1 - 402	15 - 416	AP000356.
HNFIU38	3949	709265	1 - 374	15 - 388	AW300249.
HNFIU73	3950	704409	1 - 350	15 - 364	AW381960, AA856911, AA533315, AW382006, AL79467, AL679002, AC007993, AC004859, AL031659, AL049636, U82668, AC005015, AC007221, AL050307, AC006430, AC005048, AC002091, U07562, AC005355, AP000080, AL024509, AL034345, AD000091, AC004817, AC010206, AC008119, Z82244, and AC022517.
HNFIU62	3951	740598	1 - 380	15 - 394	B54654, AA508689, R10145, AL360932, AL161218, AL302363, AL169798, N46098, AW72622, AA284554, AC007382, AL003587, AC004963, AL049839, AL049869, AC005523, AC004491, and AL022323.
HNFIU47	3952	720315	1 - 378	15 - 392	AA482321, and A90848.
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HNFIJ29	3953	941525	1 - 498	15 - 512	AL117340.
HNFIJ60	3954	740362	1 - 420	15 - 434	
HNFIJ78	3955	723390	1 - 318	15 - 332	
HNFIJ80	3956	752489	1 - 1036	15 - 1050	
HNFIJ30	3957	574145	1 - 418	15 - 432	
HNFIJ33	3958	702411	1 - 425	15 - 439	
HNFIJ44	3959	860847	1 - 578	15 - 592	AC007275, and AC006366.
HNFIJ59	3960	738593	1 - 545	15 - 559	R35010.
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HNFIJ70	3961	956187	1 - 890	15 - 904	AL912090, and AA553367.
HNFIJ50	3962	724666	1 - 118	15 - 132	
HNFIJ53	3963	527977	1 - 213	15 - 227	
HNFIJ45	3964	526940	1 - 283	15 - 297	AW084484, AA482801, AL766115, AB017919, AB010999, and AB008803.
HNFIJ10	3965	968271	1 - 293	15 - 307	AB10682, AL357542, AL364801, AW138908, AC005041, AC007546, AC005325, AC012627, L09706, AP019413, AC000052, AC004019, X69908, Z68284, AC006958, AP000354, AL022477.

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HNGAH27	3966	573087	1-298	15-312	
HNGAL23	3967	676296	1-355	15-369	AI187426, AC006352, AC007028, AC006359, AC002041, U91320, and AC005591.
HNGAL35	3968	538467	1-252	15-266	AA296593, AL022069, AL031386, AC005381, AL049613, AL035551, AB020862, AC007073, and AC004990.
					AL121840.
HNGAJ10	3969	860751	1-398	15-412	A52418, and A67829.
HNGAJ82	3970	577407	1-200	15-214	AA361909, AA305740, AA127756, AA769607, AA703462, AW294771, AF096300, AL137755, AB014587, AC005035, U88984, and AB013385.
HNGAK12	3971	660682	1-420	15-434	AC002303.
HNGAK70	3972	860770	1-353	15-367	
HNGAL51	3973	531719	1-235	15-249	
HNGAL84	3974	573099	1-166	15-180	
HNGAL88	3975	574666	1-243	15-257	AC005576, and U95626.
HNGAL92	3976	953889	1-199	15-213	
HNGAN28	3977	685436	1-150	15-164	AC008012.
HNGAN78	3978	577412	1-432	15-446	AI660791, and AI660768.
HNGAO40	3979	660305	1-158	15-172	
HNGAP18	3980	666852	1-321	15-335	AA580572, AW079831, AC005914, AC005529, AC006538, AC005527, AC007731, AC005500, AC006251, AC007536, AC005694, AC006273, AL121652, M63005, M63544, AL049869, AC005594, U91325, AL022323, AC004752, AC005084, AL023587, AL023575, AC004934, AFI146367, AC005091, AL023803, AL031846, AF124523, X16289, and AC006130.
HNGAP59	3981	916323	1-152	15-166	
HNGAO54	3982	574647	1-211	15-225	
HNGAR83	3983	574470	1-375	15-389	
HNGAS51	3984	773208	1-231	15-245	AI023913.
HNGAU59	3985	860839	1-77	15-91	AC000365.
HNGAU65	3986	925692	1-235	15-249	
HNGAV04	3987	506589	1-431	15-445	

HNGAV25	3988	574671	1-273	15-287	
HNGAV53	3989	573092	1-360	15-374	
HNGAV79	3990	574661	1-369	15-383	
HNGAV84	3991	574651	1-93	15-107	
HNGAV88	3992	860753	1-439	15-453	
HNGAW25	3993	574645	1-329	15-343	
HNGAW40	3994	711454	1-399	15-413	
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AC006953.					
AF584072, AF001069, AF000567, AC005250, and AC008372.					
H50004, and H62199.					
HNGAX82	3995	507313	1-333	15-347	
HNGAZ49	3996	715380	1-387	15-401	
HNGBB06	3997	936080	1-408	15-422	
HNGBC50	3998	868082	1-1653	15-1667	
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HNGBF41	4000	571331	1 - 359	15 - 373	
HNGBF80	4001	574475	1 - 345	15 - 359	
HNGBG20	4002	860739	1 - 341	15 - 355	
HNGBG50	4003	577364	1 - 273	15 - 287	AC002492.
HNGBH04	4004	574469	1 - 163	15 - 177	
HNGBH17	4005	577361	1 - 302	15 - 316	
HNGB110	4006	968246	1 - 323	15 - 337	AC004538.
					TI8597, AA385335, AA585098, R45895, R29657, Z32822, D51433, AA585101, Z32887, D57491, D59751, D61185, C15406, D53161, R28735, R29445, C15509, A1525316, A1557262, A1526078, A1526140, A1557864, R28892, A1541356, R28965, AA585378, AA585155, A1541365, A1525500, A1557740, AA170832, AA585439, Z28355, D60765, D54897, D60844, D59436, Z33559, A1557809, A1557718, R29218, A1546999, A585329, A1541535, A1541517, A1557731, D54850, D52835, A1526016, R28967, R28895, A1546971, A1557727, A1541205, A1526184, A1525356, C16294, C16315, A1547250, A283326, A1541383, A1555639, A1546875, D535233, D59438, A1540903, A1557763, A1547039, A1557787, D61254, D53447, A1557734, C16300, C16296, A1557004, C16292, C15120, C15762, AA385476, A1526109, D53472, C16293, A1557807, A1541346, A1541013, A1547202, A1546831, A1557533, A1525306, A1526024, C16305, C15737, A1541374, A1541034, AA585356, A1557408, D60730, A1557758, A1546945, A1525431, A1547196, A1557279, A1525339, Z36724, A1526191, A1557155, A1535660, A1526194, AA585430, A1526117, A1557602, A1526112, A1541523, R29179, Z30131, D57186, A1557852, A1546921, A1540974, A1541307, A1546996, A1541321, A1540967, A1546891, A1525320, A1547006, A1557586, A1526158, A1546901, A1557317, A1536138, A1541492, A1557808, A1525168, A1526146, C14208, A1541422, AA585453, R29262, A1525656, A1546829, R29172, A1526113, A1541402, A1557264, AA585389, A1557709, C16290, A1541327, A1526195, R29177, A1541515, A1526176, A1557810, A1557039, A1541423, A1556967, T19047, A1547189, A1525114, A1557786, A1524904, A1525076, C14210, A1526073, A1547137, A1541415, A1526180, A1541027, A1546954, A1526187, A1557533, A1526205, A1526169, A1541415, A1526180, A1541027, A1546954, A1526187, A1557533, AA585434, A1525286, A1557785, A1527238, A1524891, A1540944, AA585117, T41329, C14322, A1541345, AA585420, A1557796, A1529433, A1540920, A1546828, A1541506, A1557082, A1524890, C14391, C14723, AA174170, A1526026, A1547158, A1541075, A1547026, A1540928, A1046024, A1540882, A1557285, A1547122, A1546841, A1541514, D51413, X76012, A1541017, A1547138, A1541390, AR062871, A25909, AR038855, X82786, Y09813, X76012, AR031358, AR031365, A1243486, A1244005, Y16359, AF082186, AR038762, Z32836, AR054723, X81969, D50010, D13509, X55486, A1244004, A20702, AR062872, AR062873, A20700, D78345, A43189,

					A43188, AR017826, AJ244006, AR017907, AC005913, AJ244003, AR003381, Z30183, A63298, AF213384, AR0050070, A82595, AF006072, A98420, A98423, A98432, A98436, A98417, A98427, X82834, and L36913.
	N72393.				
HNGBI35	4007	574403	1 - 126	15 - 140	
HNGBI70	4008	781978	1 - 429	15 - 443	AC002310.
HNGBI88	4009	574409	1 - 331	15 - 345	AC005215.
HNGBPB5	4010	785983	1 - 223	15 - 237	
HNGGBI40	4011	948741	1 - 563	15 - 577	
HNGBI184	4012	573072	1 - 295	15 - 309	
HNGBI96	4013	574474	1 - 286	15 - 300	
HNGBN36	4014	526808	1 - 425	15 - 439	AC007380.
HNGBO34	4015	932408	1 - 412	15 - 426	
HNGBP21	4016	671258	1 - 498	15 - 512	H02689, T73124, AL080280, AL080281, and A68194.
HNGBP28	4017	421816	1 - 201	15 - 215	
HNGBP35	4018	526806	1 - 293	15 - 307	
HNGBRQ20	4019	859846	1 - 523	15 - 537	
HNGBRQ15	4020	573047	1 - 339	15 - 353	
HNGBS88	4021	575561	1 - 404	15 - 418	AA594214, AL612901, AC002365, AC002300, AC005921, AC003684, AC004778, and Z98946.
HNGBT44	4022	574400	1 - 343	15 - 357	AA252763, AL133723, AW193265, AD284640, F36273, F33566, AL688846, F29898, AA858197, AL446466, AL350211, AA284654, AA678436, AW193432, AA515435, AA824655, AA350859, AA0310730, AL471481, AD053672, AD283332, AS358501, AA515128, AL046409, F31204, AD061334, AA302648, H64777, D963720, F18974, F37286, AB24562, AS340747, T07451, AL610159, AK431303, A610491, AL471543, AL049634, AW406755, AT768952, AL358229, AZ49997, AL466894, AR97743, AL635988, AA377730, AL963095, AW276827, AL669455, AL47276, AA386655, F25276, AA719805, Z9180, F28776, AW339687, AA846925, F30933, AL635272, AL064864, AL270117, AW193609, AC006287, AC004006, AL117829, AL13163, Z99571, AC006865, Z93928, AF027390, AC001299, AC007014, AL022329, AC005799, AC008132, AC002303, AL031650, AL109657, AL078638, AL021918, AL021368, AC007685, AL121578, AC005409, AL130342, AL078644, AC005911, AL021808, Z94480, AC005066, AC008071, AC007227, AC003050, U91319, AC006549, AC006367, AC006155, AC007221, AC006042, AL035551, AL078593, AC006322, Z97196, AC005751, AL049830, AL098681, AC005089, AC004869, AC010975, AC004485, AP000036, AL049697, AP000260, AC004690, AC005189, Y91322, AC005324, AP000069, AC005303, AC021092, AP000099, AC007590, AL002160, AC004470, AL031433, AC006525, AP000355, AC007326, AF196971, AC006213, AB020838, AL0078604, AC007687, AC006561, AC006738, AL033517, AC005755, AC004686,

HNGBT58	4023	577325	1 - 323	15 - 337	Z82975, AC003684, AL121658, AL023799, AL035086, AL135744, AC005914, AC005792, AC002386, AL035667, A229041, AC004025, AP001172, AC007043, AC006043, AC006313, AC007436, AC005699, AC000385, AP029308, AC002984, AL021307, AC005015, AC004554, AC016025, AL034548, AP043555, AC007845, AL031584, U69730, AL109798, AC005191, AC007262, AC003003, AP000359, AC002289, AL078639, AC005722, AC007681, AC005081, U73633, AP000567, AL049845, AL109939, AL011930, AL021155, AC004804, AC009223, AL121823, AL022727, AL049776, AC002367, AC005255, AP00159, AP181896, AC006017, AF165926, AC005013, AC003001, AP000020, AC004806, AC004547, AL049588, AC007363, AL133238, Z83840, AC005301, AC003083, AC006211, AC005400, and Z97181.
HNGBT58	4023	577325	1 - 323	15 - 337	AW162493, AW298244, AA435512, AW295626, AW295622, AA527713, AA663337, AA393547, AC005057, AC007536, AC005520, U82670, Z59900, and Z59880.
HNGBT72	4024	579064	1 - 358	15 - 372	
HNGBU15	4025	574467	1 - 209	15 - 223	
HNGBV67	4026	574468	1 - 420	15 - 434	
HNGBW63	4027	574466	1 - 216	15 - 230	
HNGBX64	4028	574472	1 - 96	15 - 110	
HNGBZ16	4029	667293	1 - 414	15 - 428	
HNGBZ17	4030	575717	1 - 437	15 - 451	AC005332.
HNGBZ20	4031	812895	1 - 318	15 - 332	
HNGBZ55	4032	573069	1 - 249	15 - 263	AI761359.
HNGBZ92	4033	574464	1 - 218	15 - 232	
HNGCA47	4034	574465	1 - 192	15 - 206	
HNGCA61	4035	574461	1 - 278	15 - 292	
HNGCB44	4036	674670	1 - 389	15 - 403	U95740.
HNGCC47	4037	926947	1 - 130	15 - 144	
HNGCD08	4038	959963	1 - 365	15 - 379	
HNGCE85	4039	970738	1 - 293	15 - 307	AA292726, AA887639, AL351774, AL655222, AW009008, and AL989605.
HNGCF09	4040	527972	1 - 139	15 - 153	
HNGCF28	4041	574397	1 - 222	15 - 236	
HNGCC83	4042	868075	1 - 389	15 - 403	H86238, and AC005670.
HNGCH05	4043	932404	1 - 476	15 - 490	H92525, H48715, AL085029, H90375, AL075537, R01389, AA668973, AL352404, AW103601, AL217313, W88502, H70430, AA528363, Z84480, AC003103, AC002352, AF196969, AC000357, AC005335, AC007535, AC003101, AC005520, U91322, Y11535, AF006752, AC005546, AC006162, AC005072, U82668, AL023913, AC002350, AC004834, AF061032, AC001228, AB018503, AC008989, AC005902, AC004887, AL035249, AC006166, AC006165, AB023051, Z73979, AC006313, Z98950, and AC006430.

HNGC002	4044	920722	1 - 224	15 - 238	
HNGC111	4045	967513	1 - 456	15 - 470	
HNGC117	4046	526807	1 - 403	15 - 417	
HNGC153	4047	825377	1 - 403	15 - 417	
HNGC169	4048	574456	1 - 264	15 - 278	
HNGC34	4049	706561	1 - 193	15 - 207	
HNGC82	4050	796479	1 - 130	15 - 144	
HNGC93	4051	574458	1 - 262	15 - 276	
HNGC131	4052	571332	1 - 395	15 - 409	
HNGC155	4053	574453	1 - 377	15 - 391	
HNGCM05	4054	932409	1 - 133	15 - 147	
HNGC037	4055	708694	1 - 396	15 - 410	
HNGC045	4056	573055	1 - 370	15 - 384	
HNGC086	4057	779203	1 - 365	15 - 379	
					D80045, D80212, D80157, D80268, D80248, D80195, D59502, D80439, D59619, D80210, D80240, D81026, D81030, C14389, D80164, C15076, D80219, D59653, D80022, D80166, D80193, C06015, D80302, D59467, D80391, D59275, D80038, D59787, D80227, C14331, D80269, AA305409, D58283, D80196, D80247, D50979, D59859, D51423, D51799, D80253, D80043, AA305578, D59927, D80133, D80366, D80188, D51022, D80522, D50995, AA514188, C14014, D51060, D59610, D80378, D51103, D57483, D59889, AA514186, D80024, AW37759, AW177440, AW360811, C14429, D80241, D0251, AW178893, C75259, C03092, AW377671, AW375405, AW360844, C05695, A525923, D59373, AW377676, T03269, AW178906, AW366296, AW178986, AW360817, D45260, AW179328, AA809122, T48593, D80258, AW375406, AW378534, AW179332, D59503, AW377672, H67854, AW179023, AW178905, H67866, AW177731, AW378528, AW178762, AW179019, AW378532, T03116, A525917, D80064, T11417, AW177501, A535686, AW177511, F13647, D51213, AW378533, AW179020, AW352171, D59317, AW352170, D58246, C14227, AW178907, AW177733, AW178908, AW179024, D51221, AW360834, AW177734, D81111, D51250, A525920, C14344, AW360841, D80014, AW352120, D59551, C14973, A525227, AW177505, AW367950, AW178775, AW178909, AW177456, AW179004, AW179329, AW178980, D59695, AW178914, D80949, AW178774, AW178754, AW179018, AW352158, AW176467, D59474, AW352117, Z21582, D60010, A525925, AA514184, D80228, D60214, AW177728, C13958, A525235, D81001, D52291, A557774, D45273, AW179017, C14957, C14046, C14407, AW179009, AW179012, AW178911, AW378543, AW378525, AW378540, AW177722, F352163, A525242, D59627, D80388, C05763, D80168, A525237, AW179013, A525222, A525912, AA285331, AW375542, A557751, A525215, AW178781, C14298, AW378539, C16955, A525928, Z3452, T02974, A910186, F13796, AW360855, T03048, D51053, A535663, T02868, H67858, C04682, D31458,

				AR2595, AR060385, A84916, AR028859, AJ132110, AB002449, A62300, A62298, AR018138, AR008278, AF058696, I50126, I50132, I50128, I50133, I14842, A45456, AR016514, AR066487, A43192, A43190, X67155, AR060138, Y17188, A94995, D26022, A26615, AR052274, Y12724, AR038669, A25909, A30438, AR066488, A67220, Y09669, D89785, A78862, D34614, AR054175, AR008443, Y17187, A63261, D88547, AR008277, AR008281, AR016691, AR016690, U46128, AR062872, D50010, A70867, AR016808, X82626, AR008408, I79511, A64136, A68321, AR060133, I82448, and AR025207.
HNGCQ37	4058	708698	1 - 325	15 - 339
HNGCU24	4059	574339	1 - 137	15 - 151
HNGCU70	4060	574340	1 - 141	15 - 155
HNGCW38	4061	574463	1 - 308	15 - 322
HNGCW81	4062	577253	1 - 389	15 - 403
HNGCW82	4063	574344	1 - 348	15 - 362
HNGCW83	4064	574338	1 - 126	15 - 140
HNGCX07	4065	953900	1 - 334	15 - 348
HNGCV37	4066	952203	1 - 546	15 - 560
				AI564185, A829565, AI133246, AC002416, AI031587, AP001052, AC006071, AI080243, AC004386, AI109759, AF001552, U52111, AI109798, AC005156, AC002546, AC006013, AI049776, AC005911, AC009336, AI049539, AC008372, AI035387, U85195, AI022165, AI035083, AC005411, AI049760, AF205588, AC004526, AJ246003, AP000031, AC005069, AC005342, Z68285, AI121658, AF2004552, AC005225, AI109628, AC006111, AI021707, AC005255, AI109963, AE000658, AC004019, AC005971, AF111168, AI031255, AC007773, AC002470, Z86090, AI033527, AC004805, AI031229, AI17329, AI022322, AP000359, U95742, AP000008, AP001037, AC005632, AP007704, AC006480, AC003109, AC008040, AC004770, AC009308, AI031387, AC006449, AI133448, AI022476, AC004478, AI031274, AI021579, AC007488, AC007543, AC006241, AC007221, AC005484, AI049829, AI008726, AI049766, AI109847, AF045555, Z93023, AC005102, AC002350, AC007325, AC005072, AC007981, AC005914, AF064861, AI050318, AC005562, AC005081, AC009248, AC004659, AC004139, AI024447, AF000555, AI035455, AC004859, AI133163, AC005703, AC005488, AC002302, AI049692, AC007283, AI133245, and AC004134.
HNGCV41	4067	806055	1 - 272	15 - 286
HNGCV43	4068	574392	1 - 333	15 - 347
HNGCV59	4069	959967	1 - 784	15 - 798
HNGCZ13	4070	660916	1 - 394	15 - 408
HNGDA09	4071	574452	1 - 220	15 - 234
HNGDA56	4072	574452	1 - 324	15 - 338
HNGDB25	4073	784836	1 - 364	15 - 378
				AC002127.
				AA649070, AA210872, AA809496, AI567520, AA405464, and N67248.

HNGDB65	4074	526852	1 - 248	15 - 262	AL022101, and AL023753.
HNGDD30	4075	573021	1 - 421	15 - 435	T18897, AA385325, Z32822, AA385378, R45895, AA585098, R29657, Z22887, D59751, D53161, AA585329, AA585101, C15406, D57491, D61185, Z33559, R28735, R29445, D59458, AA557718, AI525316, AI541356, AI557262, C15069, AI557864, AI557740, AI526078, AI525600, D51433, R28892, D59436, R28965, D54830, AI541517, AA585439, Z28355, AA585155, AI526140, AI541365, R28967, AA170832, AI535639, D60765, D54897, D60844, Z36774, R29218, AI541205, AI557809, AI525556, AI557727, AI557731, AI546831, AI546891, R28895, AI55660, AI541535, AI557787, AI526016, AI526184, AI540903, C16294, C16315, AA585430, AI541034, AA283326, AI557708, AI541383, AI546699, AI557533, AA385356, AI546675, AI547250, D55233, AI557763, AI547039, D61234, D53477, AI557734, C16292, C15120, AI52702, D58335, AI526112, AI526117, D53472, AA585476, AI557408, AI541346, AI557602, AI557807, C16300, AI541013, C16296, AI525339, AI526024, C16293, AI557852, D30843, AI525306, AI547196, C16305, C15737, AI525302, AI541374, AI557155, AA585389, AI557317, AI526109, AI536138, AI547202, D60730, AI525168, AI557758, AI526146, AI546945, AI525431, AI526158, AI526191, AI541515, AI526194, AI540974, AI546921, AI541321, AI541307, AI525520, AI541492, AI546901, AI557279, AI557810, AI547140, Z30131, AI557808, AI541423, AI525856, AI526176, D57186, AI557264, AI541353, AI557799, AI541516, AI547189, AI546996, AI540967, AI546891, R29179, AI541402, AI547006, AI546829, AA585453, AI525114, AI526193, AI541422, AI557041, C14210, C14208, AI541527, AI525656, AI526169, AI557039, D61060, AI525076, AI545434, AI526113, R29262, R29172, C16290, AI524904, R29177, AI524891, AI541027, AI540944, AI556967, AI557786, AA585117, T19407, AI546954, AI525332, AI526073, AI529433, AI547137, AA585420, AI557238, AI557796, AI541510, T41289, AA514191, AI524890, AI526187, AI557785, AI526205, AI540928, AI541506, AI541415, AI541075, AI547158, AI541345, AI541450, AI525286, AI546828, D51413, AI557082, T41329, D50992, AI526026, AI046024, AI547122, AI546841, AI540920, AI557802, AI557285, AI547026, AI547138, AI557543, AI541362, AI540882, AR062871, A25909, AR038855, X82786, Y09813, X76012, A85395, A70872, A70869, A85476, U94592, AR031358, AR031365, AR037157, U87250, AC005913, AI243486, AR017826, AI244006, AI244005, Y16359, AF082186, AR038762, Z30183, AR003381, AI213384, X81969, Z22836, A62298, AR044723, D50010, D13509, AI244004, X535486, A20702, AR062872, AR062873, A20700, D78345, AI43189, AI43188, AR050070, A82595, A82593, AR019057, AF006072, AI244003, X82834, AF135243, AB005666, L36913, and AI131952, AC005390.
HNGDD73	4077	764596	1 - 452	15 - 466	
HNGDE07	4078	953858	1 - 239	15 - 253	
HNGDE31	4079	794124	1 - 382	15 - 396	AFI09718, AC004908, AC006328, AC004916, AC004842, and AL133216.
HNGDF48	4080	723368	1 - 147	15 - 161	AL022098.
HNGDF72	4081	766217	1 - 315	15 - 329	AC004914.

HNGDC86	4082	577237	1 - 310	15 - 324	
HNGDH09	4083	573022	1 - 364	15 - 378	
HNGDH37	4084	917254	1 - 201	15 - 215	
HNGDH52	4085	914629	1 - 422	15 - 436	
HNGDH96	4086	573060	1 - 427	15 - 441	
HNGDK17	4087	860684	1 - 351	15 - 365	
HNGDK41	4088	574559	1 - 375	15 - 389	
HNGDL32	4089	935842	1 - 355	15 - 369	
HNGDL72	4090	574451	1 - 90	15 - 104	
HNGDL93	4091	927582	1 - 170	15 - 184	
HNGD017	4092	973285	1 - 680	15 - 694	
HNGDPI0	4093	968221	1 - 437	15 - 451	
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	HNGDP13	4094	574484	1 - 452	15 - 466	AP00154, AC002389, AC006388, AC007369, AL031594, AC004217, AL008583, AL031291, AL096678, AC007533, AC007358, AP001053, AC009946, AL133448, AC005516, AC004084, AL049575, AC004962, Z83851, Z85986, AF196779, AC000044, AC000034, AF003626, AC006055, AC006338, M89651, and AC006014.
	HNGDP27	4095	574482	1 - 433	15 - 447	AL962959,
	HNGDP29	4096	574488	1 - 401	15 - 415	
	HNGDP30	4097	574480	1 - 351	15 - 365	AC005866,
	HNGDP71	4098	574481	1 - 348	15 - 362	
	HNGDP74	4099	860669	1 - 487	15 - 501	
	HNGDP89	4100	574478	1 - 389	15 - 403	
	HNGDP95	4101	574477	1 - 315	15 - 329	
	HNGDR19	4102	953672	1 - 376	15 - 390	
	HNGDR42	4103	657404	1 - 284	15 - 298	
	HNGDR49	4104	572904	1 - 248	15 - 262	
	HNGDR81	4105	572901	1 - 364	15 - 378	
	HNGDR88	4106	860666	1 - 311	15 - 325	AC004408.
	HNGDS04	4107	572909	1 - 533	15 - 547	
	HNGDS59	4108	576763	1 - 250	15 - 264	AL035469.
	HNGDS96	4109	796488	1 - 504	15 - 518	
	HNGDT36	4110	572895	1 - 400	15 - 414	
	HNGDU45	4111	722062	1 - 504	15 - 518	AP000274, and AP000105.
	HNGDV22	4112	572910	1 - 432	15 - 446	
	HNGDV25	4113	573152	1 - 287	15 - 301	AF18808.
	HNGDV59	4114	739407	1 - 98	15 - 112	AC006166, AB023051, and AP000512.
	HNGDV96	4115	796487	1 - 501	15 - 515	AP000345.
	HNGDW23	4116	576773	1 - 420	15 - 434	
	HNGDW62	4117	573162	1 - 290	15 - 304	AP001054.
	HNGDW95	4118	661943	1 - 488	15 - 502	
	HNGDX30	4119	860661	1 - 300	15 - 314	
	HNGDY12	4120	870390	1 - 585	15 - 599	AC006263.
	HNGDY14	4121	968042	1 - 258	15 - 272	
	HNGDY39	4122	572908	1 - 396	15 - 410	AC005702, and AC003976.
	HNGDY92	4123	920168	1 - 409	15 - 423	AL033538.
	HNGDZ52	4124	572865	1 - 348	15 - 362	
	HNGE44	4125	572855	1 - 149	15 - 163	



HNGEA82	4126	779879	1-165	15-179
HNGEAB8	4127	578911	1-348	15-362
HNGEB79	4128	576743	1-385	15-399
HNGEB81	4129	572862	1-299	15-313
HNGEB91	4130	924912	1-340	15-354
HNGEC02	4131	917530	1-987	15-1001

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HNGEC06	4132	935840	1 - 303	15 - 317
HNGEC41	4133	782294	1 - 433	15 - 447
HNGEC43	4134	573040	1 - 425	15 - 439
HNGEC44	4135	806031	1 - 626	15 - 640
HNGEC75	4136	916809	1 - 619	15 - 633
HNGED03	4137	924696	1 - 295	15 - 309
HNGED21	4138	920156	1 - 335	15 - 349
HNGED77	4139	572868	1 - 358	15 - 372
HNGED91	4140	790309	1 - 450	15 - 464
				AA501465, AL120191, H71450, A7339743, A053560, A7302753, A7301906, A414081, A7302711, A1953573, A1133727, A514024, A1020993, A1109865, A0004671, A1118516, A1050338, A0006285, A0016025, A1031773, Z98743, A0004841, A0002418, A0004386, A103330, Z49250, A0005225, A1165138, Z84486, A0006080, A1022727, A0005945, A0005795, U60683, A1109963, A000004, A1121852, Z94160, A0005150, A0002044, and A0004262.

HNGEE18	4141	573018	1 - 308	15 - 322	<p>           FI6345, AA353081, A1054090, A1251944, A16169469, A17243945, A4489897, A1358008,            A1251024, A1246061, A4594705, A1376197, A1567941, A1119563, A1027393, A19725432,            Z94161, AC005081, AC004386, A1023807, A1031255, A1050318, AC006064, U91326,            AC05778, AC05882, AC05971, AC004674, A1022336, AC007216, AC007055, A1133246,            U02051, A1080242, A1030453, A1080243, A1045555, A1022326, AC002425, U95742,            AC005088, AC005200, A1001549, A1109628, A1049636, AC005015, AC004491, A1008582,            AC007011, A1133396, A1011930, AC002565, AC007406, A1031597, AC002357, AC005280,            AC002504, AC002527, AC005527, AC003029, AC004148, AC003104, AC003966, AC005317,            AC003982, AC002395, AP000689, AC006241, AC004913, Z85994, AC005796, AC004841,            AC004922, A1001548, AC007283, AC007227, A1133163, AP000133, AP000211, A1021155,            A1009183, Z73359, Y17293, AC006529, AC006274, A1132992, A1035587, AC006130, U95740,            A1031846, L76568, A1023879, AC006126, AC007066, AC003957, A1049776, A1003147,            AC007050, A1050333, AP003555, AP001350, A1050307, AC006441, AC005049, AC002517,            U85195, Z92542, Z84466, AC007371, AC004019, AC007191, A1047825, AP000690, AC007666,            A1034549, AC007934, AC006121, AC006285, A1132712, AC005696, AD000812, Z99716,            AC006544, A1022476, AC016025, AC004929, AC004883, AC009946, AC007225, U91323,            AC004031, AC004213, AC005069, A1196969, AP000359, A1022163, AC004526, A1021808,            AC006077, AC004383, AC007731, AC007308, AC005919, A1049759, AP000493,            AC004991, AC007239, AC005500, AC005562, AC004893, AP000255, AC005749, U78027,            AC005755, AC002126, Z84467, AP000549, AC004859, A1034379, A1080313, AC005988,            A1038071, AC005516, AC005189, AC007536, AC002470, AC002430, A1034420, Z68324,            A1196779, AC004560, AC004797, AC007384, A1049540, A1117344, AC005993, AB022785,            AF053356, Z83838, A1035422, and AP000228.         </p>
HNGEE39	4142	573065	1 - 293	15 - 307	
HNGEE58	4143	708692	1 - 338	15 - 352	
HNGEG45	4144	572880	1 - 335	15 - 349	
HNGEG74	4145	860685	1 - 404	15 - 418	
HNGEG85	4146	784431	1 - 353	15 - 367	
HNGEG86	4147	573049	1 - 273	15 - 287	
HNGEI22	4148	967310	1 - 349	15 - 363	
HNGEI47	4149	720471	1 - 439	15 - 453	
HNGEI04	4150	932199	1 - 239	15 - 253	
HNGEI22	4151	573066	1 - 182	15 - 196	
HNGEI35	4152	934987	1 - 545	15 - 559	
HNGEK30	4153	572864	1 - 263	15 - 277	

HNGEK44	4154	576745	1 - 442	15 - 456	N21074, AW089204, A1431104, H67851, AA323110, A1061076, A1031273, AC016027, AC016830, AC004408, AC006344, AC009721, AC000353, AC003029, A1096774, Z86090, AC005231, A1049830, AC004522, AC005383, AC005901, AC008115, AC018767, AC004841, AC006277, AC003098, AC006141, AF111169, AC005730, AP000555, AC005229, AC002418, AC004386, AC004216, AC003982, AF11325, A1020997, A1021939, AC007688, AC006071, A1049776, AC005899, AC005004, A1033525, AC002492, and A1031291.
HNGEK68	4155	753159	1 - 328	15 - 342	
HNGEL62	4156	958363	1 - 576	15 - 590	T83534.
HNGEL92	4157	572867	1 - 359	15 - 373	
HNGEM38	4158	573041	1 - 361	15 - 375	
HNGEM53	4159	860043	1 - 388	15 - 402	
HNGEN37	4160	662955	1 - 397	15 - 411	
HNGEN45	4161	572876	1 - 350	15 - 364	
HNGEP55	4162	732262	1 - 351	15 - 365	
HNGEP61	4163	576749	1 - 296	15 - 310	
HNGEP64	4164	860631	1 - 1144	15 - 1158	A1583142, AC004491, A1022165, A1034549, AC005015, AC005585, AC004104, AC002352, U63721, AC002045, AC004997, A1020997, AC005089, AC005412, AC002554, AC002400, and AC007425.
HNGEP70	4165	572858	1 - 359	15 - 373	
HNGEP75	4166	766574	1 - 422	15 - 436	
HNGEP77	4167	861710	1 - 417	15 - 431	H14806, AW410740, A1434025, AC009542, and AC0099330.
HNGEP81	4168	778161	1 - 867	15 - 881	
HNGEQ07	4169	953647	1 - 616	15 - 630	AW407886, AW239264, and AR062112.
HNGEQ32	4170	572984	1 - 266	15 - 280	A1092509.
HNGEQ67	4171	860687	1 - 297	15 - 311	
HNGER25	4172	572873	1 - 85	15 - 99	
HNGER43	4173	699391	1 - 302	15 - 316	A1021921, and U95738.
HNGER67	4174	578903	1 - 495	15 - 509	AC007563, AC000030, A1022095, Z93928, AC002523, AC005035, AF043945, and A1008634.
HNGER82	4175	945838	1 - 625	15 - 639	AF104455.
HNGER84	4176	586451	1 - 355	15 - 369	R16017, AA570454, R02443, R16118, T77361, R06273, and T77056.
HNGER96	4177	922996	1 - 505	15 - 519	A1763088, A1135549, AC010385, A1223814, A1223777, X99326, and AF042089.
HNGES56	4178	733543	1 - 291	15 - 305	
HNGES59	4179	490034	1 - 600	15 - 614	F30908.
HNGES89	4180	573013	1 - 418	15 - 432	
HNGET07	4181	953618	1 - 397	15 - 411	
HNGET31	4182	506498	1 - 460	15 - 474	

HNGE167	4183	953529	1 - 356	15 - 370	AL046457, AL826263, AL604333, AW402063, AA359347, AA101689, AW021583, AA679936, AA846952, AP637320, AL464441, AA502104, N48230, AF732120, AA507824, AL1561060, AA487621, AL686242, AL696955, AA707833, AA665021, AW080120, AA666052, AA126450, AA548058, AW070892, AW302013, AA773153, AW102849, R79698, AA745326, AL635279, F17149, AL811809, AA806796, AF737355, R40056, AL042753, AL499588, AA610777, AL669453, AL508034, AA250819, AA639173, AA713626, AW440497, AL119713, AC005015, AC005083, AL020993, AL121603, AC002425, AL022316, AL096791, AC005071, U95746, AC004983, AC004150, AC006312, AL022165, AC003080, AL024507, AC005751, AC005736, AL049569, AP000240, AC005037, AC007227, AC009399, AC006449, U95742, AF088219, AC004019, AC002365, AC002350, AC005839, AL035079, AL121694, AL031577, AL023807, AL031283, AC004638, AL034429, AC007243, AC006115, AC005385, AC002492, AC005231, AL096774, AC005102, AC004263, AL021155, AC006116, AF109907, AL035072, AC005486, AC009516, Z97053, AC002470, AC002565, AC005996, AF045555, AC007216, AL022721, AC005089, AC004675, AL049869, Z68870, AC004216, AF033356, AL109827, AC006057, AC004821, AC004876, AC016025, AC002395, AP000689, AC002070, AP000557, AC004491, AC007546, AL050318, AC002314, AC005722, U47924, AC002310, AC004990, AL132992, AC004966, AP000201, AP000555, AL132777, AC007384, Z83840, AC005666, AC005519, AC006271, AC006211, AC004882, Z82201, AC004859, AF031078, U80017, AP000097, AL121655, AC007510, AL033423, AC005041, AC004531, AC006241, AC006261, AC005527, AL009179, AC002472, Z85986, AC0065914, AC004686, AC005031, AF030876, AC007207, AC007387, AC003982, AL035071, AF196969, AC007664, U91323, AC005154, AL031311, AL021546, AL034451, AC004815, AC003681, AC006948, Z84469, AC004841, AC006285, Z93017, AP000133, AP000211, AC002301, AC005829, AL050341, AL031767, U91326, AC007225, AC007999, AL035695, AC002072, AL031659, AP000556, U82671, AC004699, AP000553, Z95116, AC005899, AC008372, AC002430, AL022322, AL080243, AL246003, AC004878, AC008101, AC006547, AL031680, AC006111, AL021807, AC006388, AL109984, AP000493, AC004929, AC002429, AC002316, AL022315, AC002563, AL035415, AC005291, AC004668, AC005480, AC002400, AC004972, AC005783, AL078477, AC007676, AC007011, AC006537, AC003108, AC007919, AL022311, AC005288, AC004975, AP000209, AP000131, AC000044, AC006680, AC002984, AF038458, Z83838, AC006965, AC007388, AC007686, AC005844, AC005180, AC005193, AC005821, AC007298, AC007845, AC004560, AL031594, AL010770, Z83822, AC006023, AC005529, AB023049, AC006507, Z99716, AL023879, AL021154, AL023575, AC005632, AC007421, AC005778, AP000346, U85195, AC005162, AC012384, AC004598, AJ006345, AC005358, AL035089, AC005726, AC004905, AC004813, AL136295, AF064861, AL133246, AF205588, AL049795, AL031584, AC004671, AL031427, AC007324, AC006544, AL109801, AC011718, AC006480, and AL035659.
HNGE035	4184	853582	1 - 724	15 - 738	

HNGEV37	4185	860626	1 - 134	15 - 148	AA378548, and AC005071.
HNGEV33	4186	781207	1 - 400	15 - 414	AW275432, AA601376, AF191659, CI5966, AL048969, AW151247, AA730872, AA761606, AI521525, AI090377, AW020150, AD224583, AA761714, AA719564, AI926102, R23873, AA573067, RA2954, AA831426, AI613459, AA298365, AA501807, AI801563, AA586474, AA723132, AA493546, AA064983, AW270652, AI135761, CI4614, AA504974, AA720671, AA174108, AA488930, AA528907, AW277389, AA565338, AA654705, AA661583, AA516242, AA470612, AA526542, AA297208, F23338, AA708751, AA555131, AW264548, AA503144, AI754421, AI879968, AA218684, AI134338, AA767558, AI09943, AA420787, AW008089, AA493245, AA350886, AA524604, AW194046, AW075296, D44672, AA738014, AA729330, AI049845, AI040313, AI910609, AA515165, AI678812, AI798521, AI084320, AA718906, AA984114, AA484892, AA808875, AI952885, AI079734, AI760835, AA420801, AA718906, AI635440, AI148245, AI804539, TI5873, AI925423, AI042667, AI042670, AA669711, AI128353, AA056619, AI482725, AI567402, AA653221, AI986251, AA813902, AA765768, RA3331, AA601333, AI431232, AC008585, AC005520, AI079295, AC006132, AF111168, AC005399, AC009247, AI049757, AC005519, AP000037, AI023281, AI117337, AC005632, AP000555, AC007276, AI022334, AI122023, AI031680, AI133371, AC006430, AC005696, Z98946, AC004583, AC005730, AC005839, AI031295, AF067844, AC004491, AI031670, AI049694, AC002470, AC006531, AI033527, AC007263, AC005754, AB023048, AC005736, AC006468, AC005291, AC002302, AC005921, Z77249, Z93541, AI109865, AC004815, AC005829, AP000691, AC005234, AC006006, AC008115, AC005215, AI031311, AC007040, AC006241, AP000511, AI034554, AC004999, AC006205, Z98743, AI035086, AC008040, AP00114, AP000046, AC002449, AC007065, AC008072, AP000365, AC004019, AC008434, AC007390, AI022313, AI121655, AC006480, AC006001, AC004673, AC004890, AC008154, AC005011, AC004408, AI133448, AC005768, Z83844, AC000353, AC004386, AC007021, AC006511, AI034379, AI121769, AC002201, AI049830, AC005841, U91323, AC004832, AI031283, AI034548, AC002553, AF134726, AF055588, AP000099, AC003043, AP000359, AC005933, AI049766, AI034347, AP000552, U91326, Z84466, AI031123, AI030995, AI049794, U82828, Z98884, AC005229, AC005920, AC002400, AC006938, AI022932, AC008123, AC001863, AC002544, AP000036, D84394, AC006285, U47924, Z85986, AC002492, AC007298, AI049872, AC005081, AI121658, AC005484, AC004081, AC006079, AC010205, AC003108, AC005071, AC004802, AI133246, AC006597, AI035420, AC006101, Z82201, AI024509, Z99716, AP000350, Z86990, AC006115, AI031643, AC003101, Z75890, AC007421, AC004605, AI031121, AC004895, AC003007, AC004686, L78833, AC005015, AI031120, AC004526, U91327, AC004638, AC005013, AC004000, AC005060, AC008498, AC005914, AI133321, Z81369, AC002310, AC004967, AC005261, AI011930, Z95113, AF001550, AI031255, AC007917, AI035587, AB004907, AF053356, AI009181, AI096763, AC005924,

				AC005776, AC005482, AL135744, ZS5987, AC005695, AC004703, AC004762, AF047825, AC005042, AL133163, AL078581, AF000105, AC002115, AL078593, AC005157, Y18000, AC004933, AL031005, AL096703, AF129756, AL022336, AF001068, AC004659, AC004865, AC012384, AC007240, AC005694, AC005209, AC007934, AC006128, AL121603, AL034429, AL031781, AF000503, AC007057, AC007279, AC006509, AL032822, AC004883, AL035398, AC006146, AL003147, AC005066, AC005041, AL035249, AC004805, AF000694, AL136295, AF207550, U95742, AC006538, Z97184, AC002546, AD000092, AL139054, AC004985, AC005746, AF111169, Z98051, AC005180, AL135783, AC005004, AC008044, AL022476, AC006163, AC005529, and AC002550.	
HNGEV38	4188	572882	1 - 313	15 - 327	
HNGEV40	4189	572894	1 - 302	15 - 316	AC006263.
HNGEV53	4190	573090	1 - 301	15 - 315	
HNGEV59	4191	576750	1 - 305	15 - 319	
HNGEV65	4192	750391	1 - 585	15 - 599	AA644587, AA135942, AA004231, AL044969, H30905, R01285, AL079521, R01173, and AC004223.
HNGEV70	4193	573089	1 - 128	15 - 142	
HNGEV75	4194	506312	1 - 246	15 - 260	AL034429.
HNGEV86	4195	789128	1 - 89	15 - 103	H23596, H40504, and H21110.
HNGEV88	4196	750542	1 - 326	15 - 340	
HNGEV18	4197	958328	1 - 336	15 - 350	
HNGEV76	4198	572874	1 - 276	15 - 290	AA362395, AW051064, AL085439, W25284, AA652057, AA649642, A1446464, AA125788, AA348859, AL037876, H13868, AA441788, N71724, R01744, AA329192, A1886176, AL064864, AA095511, AW419262, R76463, AW088058, AW074207, AA654627, AA119860, AA826032, T62712, AH49360, A1623696, F24284, T90706, R45369, AA337978, AA058839, AA368030, AL048616, AA491814, AA147516, AL299050, AW406447, T56472, R93061, A1281903, AW192154, AL371429, N23649, AA332991, AL423625, AA650244, AA199798, F32705, AL003172, AW274101, AA398997, AL138455, AA713767, AA364315, H00934, AA218645, W60516, H72666, AA134367, W95976, W95841, W00796, T33607, A1184354, A1537955, AA318652, AA1048925, AA654771, AA501722, R24205, AA702023, AA342958, N25296, AW069481, A1925556, H22147, A714453, AW083402, AA657918, AW021917, AA878140, N66026, A1612032, AA678436, AA557325, F25276, AA127636, A1409903, A1927741, F35659, AA587256, AA888310, AA340003, AA614069, AL049634, R76777, A1348611, D82290, AL309460, T06556, AL1135405, AW337237, H03415, AW088984, AA309389, AA828984, R69934, AL167741, R66878, N58534, AL305766, A1246796, AA879430, AW083364, A1926023, AL076632, AW103679, AW103383, A1709066, H16048, AA932099, AA489775, AA578141, H77643, AA581342, AA338522, AA919037, AA649705, A1863283, T16592, AA259245, AA73208, AA533725, R44592, W56200, AA021133, N29941, AW008317,

			AP963095, AA719805, AA377730, AL076616, AL336660, AA557686, AA080863, AL54289, AA057056, AL619997, AC006367, AC002390, AC007685, AC005332, AL049588, AF165175, AC006387, AF001549, U91327, AC009731, AC022517, AL031123, AP000350, AP001038, AL132642, AC002365, AL031904, AC004901, AL022162, AL031665, AL049633, AC004595, AL022302, AC005028, U85196, AP006611, AL031431, AL034419, AL008715, AC000389, AL121578, AL080248, AC006060, AL031655, AC004616, AC006571, AC005529, AL049692, AL023879, AC004804, AL109628, AC004664, AP001068, AL008723, AC002509, Z98049, Z82173, AC004933, AC005157, AL022396, AC006582, AL049833, AC006461, AC004690, AL229042, AL023799, AC007358, AL022163, AF123462, AC005822, AC004669, AC006559, AJ011930, AL049798, AC004543, AC006019, AL049635, AC005874, AF134771, AC005291, AC007748, AL049836, AC003684, AC008064, AL133163, AC002076, Z96074, AL109847, AC007297, AL136501, AC004820, AL031732, AC005799, AL023754, AL034379, AL020993, AF165147, AC006352, AC005231, AC006359, AC005294, Z84467, AL023876, AL035692, Z97054, AC004593, AC006992, U95740, AL109952, AL009177, AC007051, AC004934, AL078615, AC007129, AC004191, AC005362, AC004276, AC006561, AC006063, AF108083, AC005553, AC005018, AC006556, AP251973, AC006960, AC003664, AC005728, AC006536, AC007285, AL035420, AC004957, AL120231, AC007707, AC004864, AC002452, AC002981, AC007690, Y18000, AC002488, AC004448, AC005284, AL035258, AL117329, AF117829, AF051934, AC005017, AC005997, AL009179, AC004066, AC005293, AL031594, AC007091, AL139054, AC005486, AF017257, AC008149, Z99755, AF165926, AC006020, AC007157, AC000117, AL021940, AL031584, AF064857, AC004647, AP000493, AC018769, AF129107, AC006376, AL078601, AC002457, AC004911, AL078624, AC005544, AC005161, AL117694, AC004761, AL022069, AP000099, AC005158, AC006196, AC007681, AC007463, AC003392, Z97989, AC009498, AL132712, AP000432, AC004097, AL078621, AC004673, AC007543, AC003998, AL096861, AP000555, AC006602, AC007682, AC004825, AC004882, AC006525, AL137191, AC006356, Z82250, AL079306, AP000036, AL121754, AC004100, AC007656, AP000473, AC003691, AC004502, AC002072, AC005324, AL009031, AC007238, AC002326, L78810, AC005216, AC005537, AC007488, AC002377, AC005751, AC011592, AC005155, AC004769, AC004855, AL135783, AC004605, AP000688, AL031599, AC004025, AL022394, AC004582, AC007773, AC004862, AJ229041, AC003035, AC007298, AF205588, AC005681, and AL049176.	
			AL110505.	
HNGEX06	4199	935838	1 - 528	15 - 542
HNGEX35	4200	959230	1 - 362	15 - 376
HNGEX76	4201	834919	1 - 323	15 - 337
HNGEX95	4202	572897	1 - 314	15 - 328
HNGEX41	4203	973310	1 - 534	15 - 548
HNGEX50	4204	676067	1 - 295	15 - 309



HNGEY60	4205	920375	1-462	15-476	AC00752.
HNGEY80	4206	790222	1-414	15-428	
HNGEY84	4207	574439	1-467	15-481	
HNGEY85	4208	752243	1-405	15-419	
HNGEY87	4209	774277	1-666	15-680	
HNGEY88	4210	424813	1-471	15-485	
HNGEY89	4211	952235	1-135	15-149	
HNGEY90	4212	576719	1-305	15-319	
HNGEY91	4213	963490	1-613	15-627	
					C16718, AL041375, AH452836, AD090377, C16746, C16704, AA831426, AT797998, AL309943, AW338021, AA410788, AH31513, AG731373, AH74127, AH84168, AA558366, AA228778, AA502398, AL310670, AA721645, A078469, AA599712, A0089625, A1627917, AL349130, AA74324, AT744905, AA163763, A6779946, A1971706, AW008184, AL338117, AD926706, AL283938, N54538, AT755214, AT754105, AA176604, AL555246, AT754421, AW151201, AT754567, AW275432, AL697239, AA703818, AL697242, AW194046, AA570740, AL192465, AA483606, AW190484, AL697235, R73744, H84412, AW272294, AL610737, AA4829036, AL244127, AL710787, AL266359, AL280535, AA225406, AL371208, AA299589, AA019003, AA56126, AA405726, A1915081, AA584207, AW338035, N42508, AA584765, AA568204, AL635028, AA311535, N25079, AL299442, F30158, AL800426, AW337805, AL598056, H30475, AL602311, AA297666, AA489390, AL753887, AL243793, AL7549688, AL285493, W60077, AL270647, AL537694, AL035977, AA845659, AL580260, AL453155, AL620992, AL128742, D44899, AT745116, AL469564, AA603400, AL331313, H73550, AL038304, AA5856815, T49633, AL290405, C0399125, AA503019, AA501460, AL10464, AL056177, AL865213, AL521525, AL870453, T60666, AL858165, AL665196, AW020150, AL817240, AL537800, AL251576, AL683069, AL801695, H61734, AA584484, AW084445, AL923052, U71576, Z99391, AL139054, AL031388, AL035587, AC009509, AL030307, AC003663, AC003042, AC005940, AL021453, AC003227, AC006501, AC005619, AP000211, AB003151, AC005839, AC007688, AC005919, AC005913, AC004383, AL031447, AC006397, AL009181, AC008101, AC004858, U85195, L34311, AC002310, AC002395, AL050348, AP000353, AC002425, AC006441, AC004605, AC005519, AP000133, AL022318, AF109907, AL133246, AC006531, AL022476, AC003041, B4294, AL133445, AL080243, AC005971, AL024507, AC007917, AC002550, AL035086, AC006241, AL008719, AC005071, Z9514, AC004448, AC006101, AL000660, AC004805, AC005207, AC006639, AC005670, AL225941, AC000333, AC005527, AL031428, AL050312, AC007324, AC016027, AC007225, AC005255, AL109798, AL031622, AC009288, AL016830, AC005346, AC004211, AC005072, U95742, AL121734, AC004967, AP000210, AP000132, AC005914, L39891, AF002991, AC005529, Z84469, AC006317, AL022316, AC009247, AL096791, AC007216, AC004811, AP045555, AC007021, AL022326, AC005201, AL133448, AC004223, Z95126, AC004699, U80460, AC008545, AC004706, U07563,

			HNGFB08	4214	959738	1 - 365	15 - 379	AL022327, Z95152, AL049776, AC005369, AC004874, AC006210, AC005393, AC002375, AC005081, AL078471, AL109963, AL021579, AE000658, AL031584, AC005488, AC004707, AL109627, AL136295, AC004963, AC002477, AL121756, AC006251, AC002316, AL022323, AF027550, U91327, AL034379, AC004242, AL049575, X55448, AP000552, AC004966, AL022302, AC005215, Z98304, Z75890, AF196972, AL031846, AP000240, AC006132, AL049569, AP000688, AC004834, AL031295, AC005057, AF001550, AL049757, AC005971, AC005412, AF111168, AL121655, AC004992, AC008072, AC004598, AC004812, Z82178, AC007226, AL049758, AC004938, AL133243, AB015355, AL023281, AC002997, AF026069, AC005233, AL034417, AP001055, AL033375, AC003101, AC006449, AL035413, AL049780, AC005730, AL133371, AP0005933, AP000501, AC006275, AC004673, AC005049, AF124731, AF019413, Z83838, Z92546, AL022336, AL049646, AC004659, AL008718, AC002394, Z853840, Z93241, AC0007292, AL035400, AC004975, AC011718, Z78021, AC005280, AC008975, AC004033, AC004531, AC005900, AC007041, AC006930, AL031311, AL109827, AC005225, AC005778, AC007685, AP000152, AC008044, AC006455, AC005004, AL008726, AB023050, AC005578, AL031767, Z97998, AP000152, AC006487, AC000111, AL008720, AC007899, AP000533, AC003684, AL008635, AC004929, AC002554, AC002312, Z82189, AC005279, AL133245, AL132826, AC005746, AC000982, AL009031, AC007999, L44140, AP000953, U82828, AC002326, AC006042, AC006252, and Z95327.
			HNGFD75	4220	823462	1 - 354	15 - 368	AW247389, R61195, AL034418, AL049776, AC002551, AC005920, AC007707, AP000321, AC004520, AC006441, AC007934, AC005291, AC003072, AL021578, AC002351, AC005520, AC002115, AP000087, AP000167, Z85994, AP000121, AC004882, AC005529, AL033392, AC005620, and AP000226.
			HNGFD85	4221	783467	1 - 394	15 - 408	AL049871.
			HNGFD96	4222	968248	1 - 544	15 - 558	AA707443, H446169, and H51510.
			HNGFF35	4223	805996	1 - 635	15 - 649	
			HNGFG22	4224	573084	1 - 398	15 - 412	
			HNGFGS1	4225	725787	1 - 203	15 - 217	
			HNGFGS7	4226	860595	1 - 326	15 - 340	R06993, and AA779921.
			HNGFGG9	4227	966873	1 - 301	15 - 315	
			HNGFH94	4228	966118	1 - 522	15 - 536	

HNGF06	4229	935828	1 - 415	15 - 429	
HNGF10	4230	578896	1 - 338	15 - 352	
HNGF12	4231	699398	1 - 334	15 - 348	
HNGF181	4232	578892	1 - 402	15 - 416	R98238, AC002306, and 297192.
HNGF127	4233	860591	1 - 382	15 - 396	
HNGFK28	4234	544726	1 - 977	15 - 991	
HNGFK44	4235	860389	1 - 255	15 - 269	
HNGFL04	4236	572833	1 - 330	15 - 344	
HNGFM50	4237	584729	1 - 392	15 - 406	D83779.
HNGFM74	4238	578884	1 - 510	15 - 524	
HNGFM79	4239	860385	1 - 287	15 - 301	AL049836.
HNGFN21	4240	572821	1 - 368	15 - 382	AA411753.
HNGFN56	4241	970740	1 - 337	15 - 351	
HNGFN63	4242	576698	1 - 473	15 - 487	
HNGFN96	4243	770209	1 - 281	15 - 295	AI306717, AI281622, AI270177, AI417586, AI065031, AA374797, AI251576, AI062322, AW274191, AI583466, AI002863, AA831801, AI595933, AA443778, AI798321, AW084173, AA832016, AI298995, AA443771, AI275989, AA205911, AW243793, AA229012, AA297330, T40629, AW019964, AA657910, AI133083, AI338526, AI955029, AW341955, AA493703, AI357628, AI499376, AI066646, H86579, AI471476, AI267336, AW242279, AA287502, AA761966, AI499376, AI066646, H86579, AA496309, AA346870, AA573000, H50725, AW377926, AW028376, AA018923, AI982994, AA012829, H73306, N23919, AA226260, AI860535, AI278211, AI560073, AA126475, AI624379, AW392414, AA017240, AW408596, AA572813, AA704806, AA640252, AC007182, AC007563, AC006958, AC008040, AC005046, AC006511, Z85987, AC012627, AC004216, AC006973, AI049838, AC003976, AI049758, Z99496, AC003964, AI031985, AC005228, AB020868, AF165976, AC004999, AI049552, AI031429, Z83826, AC004797, AI031983, AI033527, AC005011, AC007225, AI078593, AF196970, AC007240, AC005697, AC006120, Z97094, AC005225, AC005004, AI035683, AI109847, Z98048, AF155238, AC005261, U52112, L47334, AI031280, AC006480, AC002390, AC003037, AC005632, AI096776, AC004067, U95740, AC004825, U50871, AI035252, AC005482, U91321, AC007376, AC007546, AC005057, AC004617, AC005874, AF134471, AI034420, AC005386, AC004003, AP000248, AC007160, AC007050, AI117258, AC002375, AI031291, AI132992, AI121578, AI031681, AL133445, AC009501, AC010200, AC005534, AC006137, AC007327, AF117829, AP000344, AC011456, AC005839, U82668, AP001058, L29074, AC005102, Z94056, AI139054, AI109628, AC004989, AC006116, AP00011, AI031663, AC007283, AC005737, AI024507, AC010206, AC006566, AF111168, AC007880, AC007536, AC003007, AC004975, AC004887, AB020863, AC006088, AC005366, AC005049, AI133355, AC005993, AI035420,

					AP000511, AL021937, AL096712, AF002993, Z86062, AC005048, AC004838, AC005593, AC003009, AC004817, Z82245, AL049631, AP000689, AC007368, AP000152, AC006040, AC006059, AB003151, AC003991, AC007312, AC006449, AE000659, AL034379, AC008119, AF111169, AC006388, Z95116, AC004814, AC004025, AL021154, AC004525, AC009946, AC009308, AL080243, AB023050, AC005207, AC002477, AC005095, AC006198, AC004103, AF055066, AL049766, AC007934, AF227510, AR036572, U91328, AC004832, AL049872, AL034582, AC005380, AC007263, AC004106, Z98941, AC004527, AL096703, AL022727, Z97055, AC004104, AL021918, Z84467, AC005233, AL035423, AC005878, AC004087, AL008987, AL096861, AP000692, AL035690, AL035551, AL049611, and AL035417.
HNGFO46	4244	935135	1 - 255	15 - 269	
HNGFO53	4245	572856	1 - 356	15 - 370	
HNGFO81	4246	526792	1 - 261	15 - 275	AC008981.
HNGFP02	4247	920483	1 - 336	15 - 350	
HNGFP08	4248	959730	1 - 362	15 - 376	AL008720.
HNGFP62	4249	573052	1 - 341	15 - 355	
HNGFP80	4250	931021	1 - 359	15 - 373	AC006453.
HNGFP93	4251	707332	1 - 347	15 - 361	AC007136.
HNGFQ36	4252	703715	1 - 358	15 - 372	
HNGFQ58	4253	576715	1 - 483	15 - 497	
HNGFR02	4254	920482	1 - 310	15 - 324	
HNGFR16	4255	573358	1 - 357	15 - 371	US1560, and Z80896.
HNGFR48	4256	860245	1 - 481	15 - 495	H80158.
HNGFR73	4257	646263	1 - 469	15 - 483	
HNGFR80	4258	576713	1 - 422	15 - 436	
HNGFR85	4259	572838	1 - 373	15 - 387	AC004605.
HNGFS46	4260	573094	1 - 403	15 - 417	
HNGFS58	4261	932396	1 - 315	15 - 329	
HNGFS71	4262	572828	1 - 328	15 - 342	Z68225.
HNGFT19	4263	671599	1 - 555	15 - 569	AL031055.
HNGFT77	4264	772335	1 - 396	15 - 410	
HNGFU12	4265	971170	1 - 412	15 - 426	AL050337.
HNGFU28	4266	860576	1 - 260	15 - 274	
HNGFU40	4267	559450	1 - 355	15 - 369	
HNGFV03	4268	924670	1 - 197	15 - 211	AC005155.
HNGFV32	4269	806047	1 - 409	15 - 423	
HNGFW09	4270	924693	1 - 327	15 - 341	

HNGFW15	4271	578901	1-206	15-220	
HNGFW31	4272	578864	1-317	15-331	
HNGFW82	4273	839957	1-230	15-244	Z68756.
HNGFW96	4274	959715	1-461	15-475	
HNGGA08	4275	959637	1-294	15-308	
HNGGA10	4276	964820	1-364	15-378	
HNGGA20	4277	764502	1-435	15-449	AC006160.
HNGGA40	4278	506337	1-343	15-357	
HNGGA44	4279	577362	1-248	15-262	AC005220.
HNGGA53	4280	576212	1-417	15-431	AC002288, AC004111, AC007130, AC003950, Z84487, AC004905, AC003036, AC007030, AC005265, AL023807, AP000353, and AC022517.
HNGGA90	4281	572869	1-352	15-366	
HNGGB09	4282	881399	1-671	15-685	
HNGGB10	4283	964821	1-320	15-334	
HNGGB38	4284	576217	1-123	15-137	AC004583, and AC002041.
HNGGF02	4285	840277	1-289	15-303	
HNGGF03	4286	924587	1-371	15-385	
HNGGF06	4287	935709	1-361	15-375	AC008124.
HNGGF26	4288	577369	1-212	15-226	
HNGGF57	4289	576256	1-364	15-378	
HNGGG02	4290	920379	1-386	15-400	AP048728.
HNGGG10	4291	964818	1-296	15-310	
HNGGG15	4292	576294	1-314	15-328	
HNGGG18	4293	506304	1-318	15-332	
HNGGG22	4294	576267	1-263	15-277	
HNGGG25	4295	679153	1-99	15-113	
HNGGG26	4296	576298	1-320	15-334	
HNGGG50	4297	576295	1-372	15-386	
HNGGG56	4298	733510	1-297	15-311	
HNGGG63	4299	576296	1-365	15-379	
HNGGG76	4300	576231	1-359	15-373	
HNGGHI38	4301	582695	1-330	15-344	H73720, AP000555, AL049388, Z85986, AC006130, AC005089, AL031282, AC006441, and U81831.
HNGGHI48	4302	576705	1-349	15-363	
HNGGH57	4303	576278	1-172	15-186	
HNGGHI64	4304	860426	1-410	15-424	

HNGGH74	4305	577192	1 - 332	15 - 346	
HNGGH78	4306	924908	1 - 419	15 - 433	
HNGGH95	4307	576214	1 - 330	15 - 344	
HNGGI08	4308	959639	1 - 316	15 - 330	
HNGGI52	4309	576270	1 - 352	15 - 366	
HNGGI58	4310	825371	1 - 103	15 - 117	
HNGGI81	4311	830081	1 - 274	15 - 288	H65090.
HNGGK31	4312	576259	1 - 58	15 - 72	
HNGGK53	4313	576253	1 - 296	15 - 310	
HNGGK86	4314	576247	1 - 313	15 - 327	AL023803.
HNGGK94	4315	576255	1 - 295	15 - 309	
HNGGL51	4316	576758	1 - 330	15 - 344	
HNGGM10	4317	964819	1 - 568	15 - 582	AC007766.
HNGGM41	4318	576284	1 - 356	15 - 370	
HNGGM56	4319	576219	1 - 356	15 - 370	
HNGGM67	4320	576220	1 - 367	15 - 381	
HNGGM76	4321	576287	1 - 286	15 - 300	AC005777.
HNGGM92	4322	576229	1 - 295	15 - 309	AC005325.
HNGGN03	4323	924578	1 - 247	15 - 261	AC006536.
HNGGN04	4324	576263	1 - 367	15 - 281	
HNGGN16	4325	576268	1 - 302	15 - 316	
HNGGN36	4326	708119	1 - 199	15 - 213	AW029269, AA077796, AI131261, H52283, AA496309, AI720943, AA666272, AA809179, AI617586, AW162303, AA629852, AW162047, AW161786, H86579, H30595, AA018923, AA012829, AI306717, H77442, W63553, T40629, AW084173, AW019964, AI038813, AI860535, AA946848, T06897, AI955029, AI332676, H30568, AW167909, AI357628, AI066646, AI037006, AI471476, AI475164, AW130427, AI755202, AA657910, R91633, AI833218, AI039309, AA424249, AI252828, AI254153, H79407, AI902426, AI254937, AA761036, AA774006, AI270149, AI251380, AI251949, AI252207, AA429481, AI251996, AI252979, AI254626, AI284684, AI251353, AI251298, AI255012, AA59866, AI254440, AW082076, AI251598, AI252933, AI223508, AI254658, AI241970, AW086319, AA665123, AC008009, AC005003, AI254673, AW086334, AI251976, AC004009, AI008715, AC008009, AC005881, U73330, AC002347, AI117258, AI111169, Z95331, Z83851, AC005765, AC000134, AC004801, AP001054, U47924, AC006312, AI049575, Z98946, AI022316, AC004797, Z93241, Z98044, AF042089, AI035685, AI008582, AC007981, Z83826, AC007993, AC015853, AC004542, Z98304, AP000052, AI023581, AC005190, AC005884, AC008372, AC005821, AI050318, AC005519, AC006057, AC006317, AC005666, Z775890, AP001050, AI023281, AI049570,

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AC004592.	15 - 318
AL022315.	15 - 446
AL031279.	15 - 328
AC006013.	15 - 322
AF1828, H71829, R97233, and R97234.	15 - 408
AB014078, AF000514, AC004209, and AC006139.	15 - 686
AL031033.	15 - 148
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	15 - 857
	15 - 255
	15 - 229
	15 - 447
	15 - 258
	15 - 400
	15 - 412
	15 - 428
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	15 - 415
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AL034548, and AL035467.	15 - 405

HNGGS78	4348	576311	1 - 349	15 - 363	
HNGGT144	4349	576297	1 - 313	15 - 327	
HNGGT146	4350	719127	1 - 307	15 - 321	
HNGGT155	4351	576302	1 - 350	15 - 364	
HNGGT157	4352	576301	1 - 246	15 - 260	
HNGGT158	4353	576299	1 - 362	15 - 376	
HNGGT62	4354	725750	1 - 117	15 - 131	
HNGGV07	4355	953549	1 - 276	15 - 290	
HNGGV53	4356	576313	1 - 286	15 - 300	
HNGGV70	4357	781247	1 - 497	15 - 511	
HNGGV95	4358	795920	1 - 423	15 - 437	
AA486885, AA582911, AA644207, AA522942, AA873560, AA523815, AA487858, AA595825, AW088202, R95704, AW104748, AW196796, AA719080, AA480790, AA488573, R91159, AA620464, AW080134, AW162049, AA504871, AW295531, AW398550, AW600003, AW38785, AW62030, AW567674, AA111909, AW440836, AW570261, AW133636, AW029003, AW713815, AW625244, AA482711, AA634146, AW679782, AW251436, AW634145, AW251002, AW2018, AA496260, AA837084, AA483068, AW890923, AW166815, AA115968, AW17271, AA550758, AA531372, AW09722, AW120674, AW6458, AW8438, AW768905, AA348929, AW368745, AW1696, AA151980, AW767376, AW729721, AW608626, AW190911, AW18421, AA312845, AW113186, AW0575, AW4075, AA159052, AA132833, AW06327, AW099892, AW119391, AA192470, AW23229, AA045894, AW714055, AW131034, AA826303, AA923316, AW088616, AA515051, AA663486, AA533725, AW78195, AA810370, R79819, AW58382, AA079707, AW04894, AW7761, AW1281468, AA340747, AA303161, AA604854, AA548689, AW62368, AW358571, AW075511, AW300625, AA573020, AA837677, AW670468, AW493768, AW623002, AA492166, AW133130, AW670158, AA583955, AW419118, AW07736, AW521399, AA252763, AW079659, AW194761, AW525824, AA856858, AW491284, AA554319, AW56472, AW709005, AW630925, AA906889, AW682912, AW298710, AW649705, AW439558, AW171416, AW721981, AW43312, AW521323, AW644538, AW577906, AA469451, AW064864, AW10159, AW52733, AA6603156, AA0609022, R97934, AW52296, AW728997, AA346458, AW7451, AW29989, AA708352, AA599920, AW359988, AW406755, AA156538, AA280632, AA630030, AA490183, AA765170, AW079101, AW193432, AA483223, AW982525, AW71543, AA602528, AW547286, AW71481, AA644451, AA51503, AA635442, AA654771, AW970213, AA654761, AA352803, AA324164, AA653618, AA834755, AA338486, AW284640, AA370035, AA664015, AW06409, AW538229, AW15897, AA604869, AW28550, AA350859, AW57369, AW061334, AW491814, AW679514, AW59782, AA145516, AA720548, AW568678, AW54955, AW79504, AW59742, AA115165, AA199616, AA633582, AA446657, AW3887, AW825455, AW8421, AA569214, AW973803, AA134335, AA302963, AW299050, AW668578, AW041412, AW284179, AW358345, AA628042, AA513972, AA503283,					



HT9151, AA113861, AA781010, A1801600, A1679045, A1708009, A1804379, A1649642, H02877, AA568778, A1199853, A1683577, C75026, T29180, A1281881, AA394271, AW301350, AL079812, AW303196, AA908687, AW243960, H88666, AW274349, A1469624, A1173175, AA993656, AA639248, AA384881, AC010582, AC005585, AC007628, AC005484, AC007239, AC007542, AL034451, AL021578, AP000352, AC006518, AP000157, AP000114, AC006480, AF015160, U14694, AF015163, AF060568, AF001548, Z98950, AC000119, U17924, AC004832, AP000695, AF015166, AL033381, M63543, M63544, AC007911, AB020874, U91327, AL132987, AC007041, AF015171, AP001172, AB026899, AC007103, AC005589, AC004853, AF015170, AC005144, AC004934, AC009509, AC004542, AC004638, AC004408, AC002094, AC016026, AP000500, AF031078, AF030876, AF045555, U12580, AL021878, AF050666, AC009028, AC005530, AP000954, AC004785, AC004981, AC007917, AF015158, AB019438, Z97196, AF015162, U12582, X67277, AC005164, U59871, Z82214, AC005722, AC004861, AC009028, AC005530, AP000954, AC004785, AC004981, AC007917, AF015158, AB019438, AL031709, AP000563, AP000133, AP000211, AL021939, AC006000, AF015167, Z84478, AC007436, AC002477, AC008055, U12583, U50570, U14698, AC008126, AC004019, AC006352, AC005520, AC004692, AL031904, AC005552, AP000519, AC006511, AL049633, AF015169, AC004506, AC003303, AC006116, AC006538, AF064864, AC004675, AC005046, AC000052, AC007684, AC005799, AP000456, AF088219, AC003985, AC007228, AC007319, AC006296, AL031655, AF015168, AC002456, AL121748, AC004690, AB023056, AC006561, AF015161, AL022576, AC004613, S75201, Z99297, AC004593, AL035089, AC005399, A39972, AC007845, AC005684, AC006285, AC002451, AL096829, U14700, AL031653, AC002059, AP000193, AP000050, AP000311, Z73986, AL034400, AL049589, AP000117, Z99758, AC004885, AF015165, AC005527, AC005495, AC008062, AC005156, AC007558, AC004915, AC016025, AC007056, AC007193, U14719, AC005999, AL078603, AC005207, AC006150, AF164343, AC005529, AC004808, AC005040, AC006312, AC006371, AC003088, AL109733, AC005821, AC005154, AC005521, AL035461, AC004702, AL14718, AC004492, AC002487, AC004417, AL049764, AC007250, Z68328, AL022157, AL1022393, AL031905, AP000156, AL035695, AL049642, Z82211, AC004027, AC006011, AL135746, U12584, AC006548, AC002449, AP000080, AC007245, AF029308, AC005503, AC000372, AL035415, AF196779, AL117353, AC004825, AC003998, AL050318, U14712, AC006441, AL109842, AL031770, AC005901, AC007156, U12581, AL049869, Z84470, AL022477, X58156, AC006597, AC005091, AC004796, Z98941, AC007687, AL033525, Z95114, AC006036, AL078644, AC004884, Z69921, AC004385, AC005084, AC005018, AC000062, AC007870, AC004103, AC004592, L29074, L00352, M63005, M63480, AC007565, AC007360, AP000093, and AL008633.				
AC006482.				
HNGGX46 4359 868071 1 - 327				15 - 341
HNGGX49 4360 860551 1 - 318				15 - 332
HNGGX91 4361 576188 1 - 266				15 - 280

HNGX93	4362	576193	1 - 263	15 - 277	Z64732.
HNGX95	4363	576222	1 - 279	15 - 293	
HNGHA08	4364	953539	1 - 399	15 - 413	
HNGHA10	4365	860553	1 - 584	15 - 598	AC005304.
HNGHA47	4366	576213	1 - 337	15 - 351	
HNGHA70	4367	576300	1 - 378	15 - 392	AA601995, AA565285, AW151732, AA551798, AC006960, AC002119, AF064860, AC005988, AC008372, AC005738, AB001523, AC006480, AL035658, AL096712, AL121655, AC003075, AC004259, AC004600, AP000358, AC006017, AC005089, AL021391, AC009516, AL096794, AL121603, AL034343, AC003681, AC004231, 282244, AL021877, AL035464, AC005730, AC007371, AB000882, AC006445, AL031289, AL020997, AC006111, and AC005914.
HNGHA77	4368	772279	1 - 447	15 - 461	
HNGHB07	4369	860552	1 - 372	15 - 386	
HNGHB31	4370	576306	1 - 537	15 - 551	AA458724.
HNGHB33	4371	506261	1 - 128	15 - 142	
HNGHB48	4372	463007	1 - 625	15 - 639	
HNGHB55	4373	733509	1 - 506	15 - 520	
HNGHB80	4374	576769	1 - 517	15 - 531	AL132987.
					AI920851, AA338474, T27234, AA326098, AW317023, R68640, AI818313, AA829693, AA370883, AA366269, AC006255, AC002350, AC007052, AF111167, AC009891, AI117258, Z75890, AL023281, AF179633, AL035470, AC002289, AL035698, AC006409, AL050321, Z99128, AP000210, AP000132, AP000248, AC006101, AL133246, AF152365, AC003045, AP000300, AP000045, AP000113, AC002543, and AC005027.
HNGHB91	4375	576215	1 - 515	15 - 529	
HNGHD04	4376	932099	1 - 327	15 - 341	
HNGHD09	4377	860544	1 - 394	15 - 408	U91326, and AC002544.
HNGHD22	4378	576314	1 - 303	15 - 317	Z83733, and AL049749.
HNGHD25	4379	506262	1 - 306	15 - 320	
HNGHD59	4380	836226	1 - 344	15 - 358	
HNGHD67	4381	576317	1 - 430	15 - 444	AC004520.
HNGHE07	4382	953540	1 - 333	15 - 347	
HNGHE17	4383	576209	1 - 330	15 - 344	
HNGHE52	4384	576197	1 - 312	15 - 326	AC002038, AC006352, AC002041, AP000543, AC006359, and AC002307.
HNGHE56	4385	577124	1 - 344	15 - 358	
HNGHE62	4386	576202	1 - 266	15 - 280	AA804653, AI089093, AH70199, AA757250, AI038529, AA654837, HI12636, AI612981, T61868, AA012846, AI658809, AA582114, AA115234, AA115354, AC009972, AL021330, Z93018, AC006924, AC006020, AL031684, AL121866, AL021182, Z70719, AC008013, AB023048, AP000511, AC002072, AF027598, Z83200, AC004474, AL034485, AL022153, AC007165,

					AC002327, AL021939, U78308, AC005864, U76377, AL023878, AL079300, AF095725, AL078599, AC019014, AL009029, AC009946, AL109659, AC005908, AC006952, Z74409, AC003015, AC002299, AC007685, AL033304, AC004103, AC004947, AC007159, AC004099, AL121593, AC006961, AC005613, Z82212, AC006036, AC005084, AC006432, AC005832, AL022154, AL031116, AC002067, U95743, AF003627, Z98046, AL133353, AC005875, AC005247, AC002122, AB020871, AP000695, AC007262, AP000696, AC004014, AC005048, AC006478, AL022401, AL035660, AL033521, AC005771, E05591, E05593, E05595, D10871, AL109830, AL021307, and AC004125.
HNGHE69	4387	753107	1 - 503	15 - 517	AP000024.
HNGHE95	4388	779951	1 - 198	15 - 212	
HNGHG15	4389	971736	1 - 382	15 - 396	
HNGHG22	4390	577414	1 - 326	15 - 340	
HNGHO56	4391	576230	1 - 353	15 - 367	AC005033, and AC006544.
HNGHG68	4392	576232	1 - 334	15 - 348	AC004536.
HNGHG71	4393	576218	1 - 346	15 - 360	AC002351.
HNGHG126	4394	924570	1 - 379	15 - 393	
HNGHK13	4395	577354	1 - 334	15 - 348	
HNGHK42	4396	582685	1 - 301	15 - 315	
HNGHK44	4397	576208	1 - 281	15 - 295	AI 050342.
HNGHK46	4398	576205	1 - 308	15 - 322	
HNGHK48	4399	576206	1 - 320	15 - 334	
HNGHK50	4400	576195	1 - 364	15 - 378	
HNGHK53	4401	576191	1 - 343	15 - 357	AL034343.
HNGHK68	4402	576207	1 - 192	15 - 206	AC006120.
HNGHK77	4403	772277	1 - 482	15 - 496	
HNGHL10	4404	964814	1 - 352	15 - 366	
HNGHL20	4405	973969	1 - 350	15 - 364	
HNGHL22	4406	576326	1 - 363	15 - 377	AC000067, AL021332, AL034548, AF064860, AC010197, and U95740.
					AI052117, AI057562, AI369836, AI360398, R84933, AI289003, AI870646, AA767953, AI672430, AW274266, and AI926637.
HNGHL51	4407	576223	1 - 221	15 - 235	Z54246.
HNGHL52	4408	576226	1 - 414	15 - 428	
HNGHL65	4409	576320	1 - 243	15 - 257	AC005375.
HNGHL76	4410	506269	1 - 348	15 - 362	AC005953.
HNGHL77	4411	772283	1 - 293	15 - 307	
HNGHM33	4412	576741	1 - 302	15 - 316	
HNGHM36	4413	576325	1 - 355	15 - 369	

HNGHN51	4414	713805	1 - 394	15 - 408	
HNGHN22	4415	421742	1 - 433	15 - 447	
HNGHN40	4416	576165	1 - 244	15 - 258	AL034402, and AL049871.
HNGHN42	4417	576111	1 - 237	15 - 251	
HNGHN52	4418	576681	1 - 341	15 - 355	AA393776, AI149821, AI339278, AA436071, AI125367, and AA397838.
HNGHN56	4419	733881	1 - 416	15 - 430	AI183881, AI085895, AI014092, AI023656, AI121588, AI132826, AI035900, Z94722, AL008627, AI021877, and AL033381.
HNGHN70	4420	576108	1 - 434	15 - 448	
HNGHN75	4421	576110	1 - 427	15 - 441	
HNGHN76	4422	576170	1 - 218	15 - 232	
HNGHN86	4423	783566	1 - 203	15 - 217	
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HNGHN93	4424	506259	1 - 342	15 - 356	
HNGHN94	4425	970856	1 - 423	15 - 437	
HNGHN95	4426	576127	1 - 426	15 - 440	Z96194.
HNGHO02	4427	920373	1 - 329	15 - 343	
HNGHO10	4428	964804	1 - 305	15 - 319	
HNGHO15	4429	576168	1 - 213	15 - 227	
HNGHO26	4430	420281	1 - 236	15 - 250	AC010168.
HNGHO28	4431	576173	1 - 361	15 - 375	AC007565.
HNGHO32	4432	575735	1 - 368	15 - 382	
HNGHO36	4433	576142	1 - 367	15 - 381	
HNGHO62	4434	840278	1 - 311	15 - 325	
HNGHO66	4435	576174	1 - 369	15 - 383	
HNGHP28	4436	576178	1 - 294	15 - 308	

HNGHP66	4437	576136	1 - 126	15 - 140
HNGHP74	4438	577357	1 - 192	15 - 206
HNGHP91	4439	576053	1 - 225	15 - 239
HNGHP95	4440	577335	1 - 412	15 - 426
HNGHQ27	4441	683507	1 - 331	15 - 345
HNGHQ43	4442	576262	1 - 429	15 - 443
HNGHQ55	4443	576144	1 - 237	15 - 251
AC006352, AC007028, AB019440, AB019438, and AB019437.				
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HNGH072	4444	576105	1 - 431	15 - 445
HNGH076	4445	770126	1 - 234	15 - 248
HNGH096	4446	723008	1 - 428	15 - 442
HNGHR04	4447	576196	1 - 435	15 - 449
HNGHR79	4448	576199	1 - 423	15 - 437
HNGHR83	4449	576210	1 - 426	15 - 440
HNGHT06	4450	935706	1 - 361	15 - 375
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HNGHT92	4451	576149	1 - 235	15 - 249
HNGHY07	4452	953531	1 - 380	15 - 394
HNGHY31	4453	577363	1 - 433	15 - 447
HNGHY54	4454	730769	1 - 312	15 - 326
HNGHY78	4455	576139	1 - 318	15 - 332
HNGHZ17	4456	860532	1 - 430	15 - 444
HNGHZ48	4457	576181	1 - 137	15 - 151
HNGHZ51	4458	716649	1 - 300	15 - 314
HNGIA19	4459	576269	1 - 433	15 - 447
HNGIA66	4460	576155	1 - 432	15 - 446
HNGIA66	4461	678887	1 - 430	15 - 444
HNGIC24	4462	934280	1 - 462	15 - 476
HNGIC67	4463	576177	1 - 297	15 - 311
HNGID03	4464	921946	1 - 249	15 - 263
HNGIDI1	4465	967226	1 - 338	15 - 352
HNGIDI5	4466	660299	1 - 432	15 - 446
				AL133216.

HNGID16	4467	576114	1 - 329	15 - 343	AC005072, and AF006752. Z68324.
HNGID33	4468	868069	1 - 110	15 - 124	
HNGID67	4469	751668	1 - 334	15 - 348	15 - 400
HNGID78	4470	576117	1 - 386	15 - 400	
HNGID80	4471	576120	1 - 352	15 - 366	15 - 210
HNGID89	4472	577358	1 - 196	15 - 210	
HNGID91	4473	577189	1 - 430	15 - 444	AC003976.
HNGIH02	4474	920362	1 - 339	15 - 353	
HNGIH56	4475	576122	1 - 233	15 - 247	15 - 274
HNGIH94	4476	576123	1 - 260	15 - 247	
HNGIH16	4477	576154	1 - 77	15 - 91	15 - 339
HNGIH47	4478	576156	1 - 175	15 - 189	
HNGIH50	4479	915340	1 - 319	15 - 333	AL079339.
HNGIH74	4480	576158	1 - 367	15 - 381	
HNGIH76	4481	576153	1 - 99	15 - 113	15 - 166
HNGIH85	4482	576102	1 - 274	15 - 288	
HNGIH01	4483	916748	1 - 345	15 - 359	AL079339.
HNGIH05	4484	925597	1 - 325	15 - 339	
HNGIH11	4485	964809	1 - 334	15 - 348	15 - 325
HNGIH59	4486	860526	1 - 311	15 - 325	
HNGIJ66	4487	576224	1 - 152	15 - 166	15 - 387
HNGIJ67	4488	506355	1 - 373	15 - 387	
HNGIJ96	4489	779901	1 - 436	15 - 450	AL688289, AC003960, AJ009632, Z84477, AC006374, AC008064, AC004051, AL133224, AC005156, AC000119, AC004137, AP000701, and AC006234.
HNGIK41	4490	712562	1 - 238	15 - 252	
HNGIK42	4491	713817	1 - 316	15 - 330	15 - 437
HNGIK77	4492	772230	1 - 423	15 - 437	
HNGIL27	4493	839552	1 - 500	15 - 514	15 - 451
HNGIL43	4494	715328	1 - 437	15 - 451	
HNGIM04	4495	615308	1 - 438	15 - 452	AC005251.
HNGIM46	4496	653221	1 - 428	15 - 442	
HNGIM76	4497	770078	1 - 263	15 - 277	AW089101, AA493894, AW089604, W45350, AA478355, A1630176, AJ0783581, AJ345418, AW410354, AL038072, AA303007, AA633753, AW069084, AA721047, R99518, AL049636, AC011311, AP000151, AL109984, AL031668, D87675, AL022323, AC006241, U85195, AC019014, AC005531, AC007390, AE000658, AC004217, AJ003147, AC005682, AL021155,
HNGIM90	4498	788715	1 - 341	15 - 355	



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HNGIM02	4499	783495	1 - 245	15 - 259	AC007226, AC007216, and U95742.
HNGIN11	4500	964991	1 - 553	15 - 567	
HNGIN18	4501	666515	1 - 436	15 - 450	
HNGIN28	4502	860521	1 - 440	15 - 454	
HNGIO15	4503	660320	1 - 392	15 - 406	
HNGIO77	4504	576857	1 - 365	15 - 379	
HNGIP30	4505	577338	1 - 324	15 - 338	AL050318.
HNGIP39	4506	840215	1 - 340	15 - 354	AL633157.
HNGIP42	4507	860518	1 - 377	15 - 391	AW450501, AL444815, AL444830, and C20642.
HNGIP72	4508	575752	1 - 321	15 - 335	
HNGIQ28	4509	860510	1 - 422	15 - 436	
HNGIQ43	4510	715324	1 - 405	15 - 419	NS2389, and AC006487.
HNGIQ48	4511	720944	1 - 406	15 - 420	
HNGIQ66	4512	506352	1 - 345	15 - 359	AF001550.
HNGIR34	4513	719088	1 - 422	15 - 436	
HNGIR92	4514	524799	1 - 382	15 - 396	AA642060, AW021583, AA364701, AL471543, AA630362, AA320748, AW270382, AA302308, AA828680, AA121651, AA534010, AA535406, AA829106, AL625292, D25870, AW245747, AA508509, AA515549, AA310158, AA947547, AA584752, AL672135, AA338522, AA346692, AA384502, AA614069, AA584201, AL674873, AA482801, R65755, AA503600, AL343137, AL109842, AL008635, AP000230, Z83840, AP000144, AC004098, AC006251, AL022326, AC006430, AC009516, Z98200, AC002350, AC007488, AC004254, AP000330, AL021937, Z99716, AL121658, U95740, AL022238, AC010200, AC000052, AL022476, Z14320, AC002310, AL023807, X87344, AC004019, AC005412, AL080243, AC005041, AC005778, AC008372, AC005736, AC006111, AC005324, AL117694, AC004526, AC005280, AC007676, AL035079, AP000352, AC005251, U85195, Z25986, AL023284, AE000658, AC002985, AC005197, AL122003, AL031848, Z93017, AC008079, AC002045, AD000092, AC006271, AL109984, AL022318, AC005212, AL078581, AP000356, AL121603, AF217403, AC007684, AC005181, AC016027, AP000553, AC016830, U91326, AB001523, AC006115, AC006449, AC006001, U95742, Z69919, AF055066, AP000556, AC007216, AL109837, AC005888, AC007193,

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HNGIS13	4515	575753	1 - 433	15 - 447
HNGIS30	4516	575758	1 - 387	15 - 401
HNGIT70	4517	953890	1 - 337	15 - 351
HNGIU55	4518	576804	1 - 356	15 - 370
HNGIU78	4519	666261	1 - 1165	15 - 1179
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HNGIV01	4520	913687	1 - 483	15 - 497
HNGIV24	4521	766775	1 - 198	15 - 212
HNGIV81	4522	777970	1 - 720	15 - 734
HNGIV70	4523	883086	1 - 572	15 - 586
				AL049743. H90844, AF111168, Z85986, AP000088, AC007565, AC010197, AP000556, AC004167, AC002470, AC009516, AC004526, AC004030, AP000228, AF111169, AC006160, AP000140, AC004560, AC006120, AC006509, U91326, AP000552, AL031295, AC007546, Z84469, AL079342, and AC005940.
HNGIW73	4524	764456	1 - 345	15 - 359
HNGIY22	4525	674660	1 - 261	15 - 275
HNGIY36	4526	707123	1 - 182	15 - 196

HNGIV56	4527	868065	1 - 339	15 - 353	AA48018, and AB016816
HNGIV60	4528	740404	1 - 148	15 - 162	AA306200, H09834, and 299714
HNGIV79	4529	797229	1 - 518	15 - 532	AD68789, AL031297, and AL021155
HNGIV92	4530	797337	1 - 349	15 - 363	AC006465
HNGIZ26	4531	670962	1 - 388	15 - 402	
HNGIZ56	4532	733439	1 - 303	15 - 317	
HNGIZ69	4533	757599	1 - 423	15 - 437	
HNGIZ82	4534	668704	1 - 409	15 - 423	AI674585, and AW137161
HNGJAI5	4535	787570	1 - 959	15 - 973	AL110505
HNGJAI8	4536	666512	1 - 292	15 - 306	
HNGJB34	4537	936011	1 - 424	15 - 438	TI5352, AA586366, AA585098, AA585325, TI8597, AA170832, R29637, R45895, AA385101, D53161, Z32822, C15406, Z32887, D57491, D59751, R28735, R29445, AI5069, D61185, AI557718, AA385155, AI557740, AI525316, AA585378, AI557762, AI526184, R28892, AI557864, AI541356, R28965, AA585439, Z28355, AI526140, AI541365, AI525500, D60765, D54897, AA585379, D60844, D59436, R29218, C16294, AI526078, AI541517, AI557731, R28067, R28895, AI557727, AI541203, AI541355, AI546971, AI525556, C16315, Z33359, AA283326, AI541383, AA585476, AI546999, AI547250, AI557763, AI546875, D55233, AI540903, AI526016, AI547039, D61254, D53447, AI557734, AI557084, C16292, C15120, C15762, D54850, D52835, D53472, D51433, AI557787, AI541346, C16300, AI541013, AI535639, C16293, AI557807, AI525306, C16305, C15737, AI557809, AI541374, AA585356, D60730, AI557738, AI546945, AI525431, AI526191, AI557155, AI541034, AI547196, D59458, C16296, AI526194, AI557408, AI547202, AI541523, AI557533, R29179, Z30131, AI525339, D57186, AI526112, AI557602, AI546831, AI546921, AI541307, AI526109, AI546996, AI540967, AI546891, AI547006, AI526024, AI526117, D78224, AI525856, AI557279, AA585430, AI540974, AI535660, AI541321, AI541515, AA585453, AI525320, AI557808, Z36724, C14208, AI526176, AI541402, R29262, AI557852, R29172, AI541492, AI526113, AI526195, R29177, C16290, AI541527, AI546829, AI526158, AI526146, AI556967, T19407, AI546901, AI541516, AI557317, AI541510, AI525636, AI557786, T41289, AA5314191, AI557264, AI525332, AI557799, AI526180, AI557810, AI526187, AI546954, AI525286, AI525114, AI524904, AI557041, AA585117, AI547189, AI541423, AI541027, AI524891, AI525076, T41329, AA585434, C14210, D61060, C14322, AI541506, AI541415, AI239433, AP000543, AR038855, AR062871, A25909, Y09813, X82786, A85395, A70872, A70869, A85476, Y76012, AR037157, X81969, U87250, Z32836, AJ244005, Y16359, AR054723, AF082186, AR038762, AR031358, D50010, X55486, AR031365, D13509, AJ244004, A20702, AR062872, AR062873, A20700, D78345, A43189, A43188, AR017907, AJ244003, AJ244006, AR017826, AJ243486, AC005913, AR003381, A98420, A98423, A98432, A98436, A98417, A98427, AR008429, Z30183, A62298, AF213384, AR050070

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HNGJIB52	4538	724406	1 - 432	15 - 446	AC005950, and AC001238.
HNGJIB68	4539	753060	1 - 371	15 - 385	AA618452, A1284640, AW270382, AL121235, A1537506, A1539563, A1537551, A1564809, A1533303, A1548511, AA750955, AA720702, AW021583, AA658362, AA747777, A1457397, A1533303, A1548511, AA503475, A1679045, AL004921, AA593247, A1713891, A1434695, A1538431, AL046457, AL038123, AL044858, AS584145, AL038474, A1821271, A101689, N27584, A1355224, A1523838, A1535406, F17891, A1745325, AA724333, A-A804962, A1674873, A1524204, W2656699, A1683258, AS534010, AL270248, A1246119, A1055790, A1805607, A1684097, A1856694, A1053635, AL022238, AC004139, AP004459, AC007308, AL031283, AC006153, Z93241, Z98036, D87675, AC004019, AL031848, AC004673, AP000745, AC004808, AC005242, AC006480, AC007057, AL049872, AC000052, AP005556, AL0031670, AP00349, AL049760, AF134726, AC007242, AC004386, AC002470, AC007514, AC004499, AL031668, AP000088, AL008718, AC005815, AC006948, AP000122, AP000054, AC006991, AP000553, AL031346, AL009179, AC005231, AC010205, AC005902, Z83845, AC007040, AL022329, AC009405, AL049758, AL049539, AC005787, AC007262, AL034451, AL050318, AC005940, AL022721, AL049766, AC005004, AC009829, AC003684, AP001137, AL031295, AL022238, AL049699, AL049692, AP001053, AC011456, AC005089, Z83840, AC005632, AL133245, AC007748, AC005324, AC002316, AC005768, AL078472, AC005923, AC002301, AL024498, AL118316, AC005409, AP000031, AC004492, AC005005, U62317, AL118497, U52112, AC006750, AC006658, AL049643, AC006006, AC000353, AC006042, Z73746, AC002365, AC006132, AC005512, AF107885, U85195, AL096701, AC005844, AP0000403, AC002266, AC002310, AL121877, AL080317, AC003668, AL022332, AB009667, Z97056, U07000, AF042090, AC005071, AL035249, AP001054, AC005332, AC005043, Z86090, AC005900, AB001523, AP000326, AC004638, AC005154, AP000023, AC004531, AC009516, AC004600, AC005924, AC006322, AC004963, AC003986, AL118509, AC009227, AC000067, AC004876, AL008582, AP000169, AC005509, AL050341, AF038458, AC004230, AC006071, AL049780, AC007666, Z82215, AC002404, M87919, AC005527, AC012627, AC007298, AC006515, AP000966, AC009044, AC005225, AL078623, D84394, AL035587, AL022284, AC005180, AC004675, AP000356, AC002418, AL049873, AL031257, AC005781, AL034553, U95743, L77570, AL132994, and AC007878.
HNGJIC60	4540	723380	1 - 404	15 - 418	
HNGJIC66	4541	786924	1 - 339	15 - 353	
HNGJIC76	4542	739500	1 - 162	15 - 176	AC005915.
HNGJID15	4543	660312	1 - 201	15 - 215	
HNGJID61	4544	774154	1 - 737	15 - 751	
HNGJID71	4545	760397	1 - 428	15 - 442	AB022522, AB022521, A1012652, and AB012162.

HNGJID76	4546	670948	1 - 339	15 - 353	
HNGJIE16	4547	661976	1 - 366	15 - 380	
HNGJIE33	4548	795219	1 - 409	15 - 423	
HNGJIE40	4549	960003	1 - 380	15 - 394	
HNGJIE56	4550	669732	1 - 415	15 - 429	
HNGJIF26	4551	666504	1 - 399	15 - 413	AL096853.
HNGJIF65	4552	698487	1 - 575	15 - 589	AW293616, and AA661680.
HNGJIF73	4553	683440	1 - 395	15 - 409	
HNGJIF79	4554	775221	1 - 142	15 - 156	
HNGJIG15	4555	660308	1 - 421	15 - 435	AL021528.
HNGJIG37	4556	708703	1 - 376	15 - 390	
HNGJIG72	4557	970797	1 - 387	15 - 401	
HNGJIG89	4558	778294	1 - 240	15 - 254	
HNGJH09	4559	415566	1 - 292	15 - 306	
HNGJH11	4560	860350	1 - 435	15 - 449	
HNGJH35	4561	952237	1 - 337	15 - 351	AL045943, AL134524, AL042377, L26292, AF190465, AC007425, AC005520, AC002540, AL035420, U89387, AC006241, AC005911, AC005519, AL049557, AL031681, and AC005940.
HNGJH50	4562	666843	1 - 435	15 - 449	
HNGJH96	4563	953648	1 - 246	15 - 260	
HNGJI29	4564	690667	1 - 373	15 - 387	AC005058.
HNGJI35	4565	707328	1 - 375	15 - 389	
HNGJI42	4566	465160	1 - 405	15 - 419	
HNGJI54	4567	465159	1 - 369	15 - 383	
HNGJI71	4568	760393	1 - 412	15 - 426	AL124706, AA307598, T74524, AL1609972, AL755214, AL754567, AA658918, AL754105, AW328331, AA527209, AA654038, AA535216, AA643770, AL1380617, AW304699, AL612142, AA714110, AL251576, AW274191, AL066232, AA704393, AL12401, AL583466, AL583252, AL733647, AL187148, AA535545, H07953, AA223890, AA747757, AA084609, AA297666, AA515138, AA829036, AW275432, H53284, AL049630, W60522, AW275412, AL118925, B92629, AL446336, AW300749, AA720774, AA904211, AL733662, AL244157, AA877992, AW083678, AA513551, AP000496, AF085946, AL050341, AL031985, AC006071, AC003685, Z93017, AC005184, AL132987, AC006277, AC006312, AC005412, U67813, Z97054, AC005484, AC005800, AC002544, Z98750, AC006237, AC004167, L13176, AC006254, AL001053, AC002115, L24294, AL021707, Z93930, U91326, Z98884, AL080243, AL035387, AC003957, AC004972, AL021546, AL023553, AC007276, AL049872, AC004805, AL031281, AC005049, AF038458, U80017, AL133243, Z99943, AC006441, AL121658, AC004638, AL022336, AF111169, Z99495, AC004084, AL139054, Z94056, AC004534, AL008583, AP000501, Z93016,

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HNGJ177	4569	772215	1 - 344	15 - 358	W26162, and AL022721.
HNGJ183	4570	781213	1 - 400	15 - 414	
HNGJ182	4571	597096	1 - 447	15 - 461	T64224.
HNGJ151	4572	725702	1 - 110	15 - 124	
HNGJK04	4573	615288	1 - 393	15 - 407	AC002365.
HNGJK06	4574	915548	1 - 267	15 - 281	
HNGJK12	4575	970686	1 - 213	15 - 227	
HNGJK23	4576	707327	1 - 113	15 - 127	AC004856.
HNGJK29	4577	663954	1 - 162	15 - 176	
HNGJK42	4578	713810	1 - 387	15 - 401	AW274296.
HNGJK50	4579	860196	1 - 384	15 - 398	
HNGJK54	4580	730713	1 - 225	15 - 239	
HNGJK58	4581	736080	1 - 387	15 - 401	AA491767, AA714011, AA644090, AA302690, AL0243789, A1567676, AW236288, AL270476,

			AA365586, AA021429, AT42168, AA481887, AA130647, AW188869, AA368616, AI791408, AT91720, AT254779, AA570441, AA833896, AA481970, AI829531, T50694, AA833875, HA7461, AI002810, AA457408, AI24387, AW238341, AW020612, AA595661, RT9396, N27751, AI128511, AI084348, AI679871, AA600368, AW302017, AA595661, RT9396, N27751, AA130855, H80989, AA721645, AA525753, AI044966, AA565426, U60083, AC005821, AC002477, AI133448, AC004913, AC054509, AC004975, U89337, AC005399, AI031589, AC004659, L44140, AR036572, U91328, AI031681, AF045448, AC004983, AF023268, AC004878, AI049694, AC007785, AC006480, AI034423, AI080243, AC007151, AC005726, Z94160, AC006101, AF069489, AC005902, I34294, AI109963, AF064860, AC007226, AC003109, AC006111, AI035086, AC005971, AC004967, AC005049, AI008725, AI049780, AC006596, M87889, AC005519, AI133399, AC006511, AC002302, AC000085, AP001053, AP000704, AC005089, AC002126, AP000008, AC005291, Z95331, AI049576, AC005972, AC006071, AB020868, AC004851, AI022316, AC003108, AB004907, AC000024, Z93242, AC005529, AC003982, AI132712, AP000247, AC005028, AC006166, AC000073, AP000512, AC006241, AC000353, AI021878, AC006080, AI022476, AC004554, AP000330, AC005666, AI035671, AC005602, AC004150, AI117352, AC004686, AP000689, AC006077, AI031680, AC004985, AC005330, AC002558, AI034553, AC005566, AI035458, AI021407, AI022069, AC004007, AC003962, AC005952, U95740, AI022721, AB023051, AI022165, AC006040, AC005527, AC000159, AC004098, AC006013, AC002511, AI035681, Z83840, AC004647, Z85987, AI135783, AC006026, AC005069, AC004750, AC005513, AC002312, AI049636, Z68870, AI035455, AF165142, AC007242, AC005907, AC005796, AC004836, AC005568, AI035398, AI109623, AF111167, AI021397, AC005697, AI035420, AI135960, AI131016, AF031078, AI022327, AD000091, AP000047, AI035683, AI031311, AC005014, AC004854, AP001054, AP004861, AF030876, AI022320, AC004477, AB003151, Z98949, AC005764, AF165926, AP000143, AC006449, AC005736, AC006538, AI031587, AP000090, AC002350, AC004019, Z98752, AI031295, AI009181, AI034549, AC005067, AI096678, AC008115, AF124523, AP000115, AI008719, AC005670, AC000003, AC005899, AB023049, AI033538, AC007016, AC004525, AI133445, AC002303, AC004559, AC007848, AC006509, AC006530, AI110502, AF053356, AP000240, AI022313, AI117344, AF207550, Z86090, U95742, AP000346, AC005412, AC002984, AF195658, AI021707, AC005057, AC006012, AC005225, AF111169, X55448, AC004644, AC005306, Z98036, AC007011, AI133244, D87675, AC005564, AC005874, AF134471, AC005288, U91321, AI003147, AF196989, AI031846, AC005058, AC007227, U91323, Z82244, AP000248, AC006024, AC005058, AI031584, AI021528, AI021391, AC006236, AC005229, AC007216, AI031662, AC003030, AI035414, AC016027, AC004883, AI034449, and AI049776.
			AI035106.
HNGJK71	4582	739233	15 - 380
HNGJK77	4583	732737	15 - 544

HNGJK89	4584	772218	1 - 336	15 - 350	Z98747.
HNGJL16	4585	661977	1 - 363	15 - 377	AI008137, AA644021, AA552280, AA320136, AP000502, AC006026, and AF134726.
HNGJL26	4586	681819	1 - 355	15 - 369	
HNGJL27	4587	725295	1 - 363	15 - 377	AA132777, AA809070, AI799864, AW076105, W22288, AI586953, AW192068, AA470553, AI288805, AA470607, and AA470506.
HNGJL60	4588	462981	1 - 427	15 - 441	AC007436.
HNGJL73	4589	783518	1 - 333	15 - 347	TS9857, AI057232, AA077670, AI056766, AA076992, AI683105, AI633727, AW439721, AA076966, AA077800, AI057266, AA491063, AA854897, AA703747, AA491139, AI125775, AA279111, AI580834, AA490952, AA430496, AA450019, AI038182, AA156779, H29782, AC004916, AC004987, AF109718, AI133216, and AC006328.
HNGJL76	4590	793537	1 - 596	15 - 610	AC007436.
					TS9857, AI057232, AA077670, AI056766, AA076992, AI683105, AI633727, AW439721, AA076966, AA077800, AI057266, AA491063, AA854897, AA703747, AA491139, AI125775, AA279111, AI580834, AA490952, AA430496, AA450019, AI038182, AA156779, H29782, AC004916, AC004987, AF109718, AI133216, and AC006328.
					AC004672.
HNGJM20	4591	964800	1 - 439	15 - 453	AA679195, and AB002375.
HNGJM35	4592	707324	1 - 122	15 - 136	AA776881, AI961747, T70076, AI631548, AI198396, AI560937, C04802, AA650160, AI003674, AP005223, AC006453, AI049911, AC002038, AC002307, AP000544, and AP000543.
HNGJM82	4593	967328	1 - 848	15 - 862	
HNGJO10	4594	964678	1 - 395	15 - 409	
HNGJO35	4595	707329	1 - 390	15 - 404	
HNGJO45	4596	717069	1 - 394	15 - 408	
HNGJO73	4597	668997	1 - 348	15 - 362	
					AW151247, AA360082, AA610353, AA660295, F17549, R17793, AA862218, H11470, AW082006, AA910680, AW387775, AW387778, AA490951, AA588001, AA370455, T47970, AI791659, AA610588, AW387786, AI041749, AI133355, AA171130, AA062982, AA345064, R23873, AI031120, AC004787, AI008582, AP000331, AP000172, AP000057, AP000125, AB023050, Z97832, Z95329, U91326, AC002544, AI096763, AC007406, AI035458, AP000030, AC004228, AC004929, AP000251, AP000133, AP000211, AF020802, AI229041, AI133448, Z83844, AC005544, AB003151, D89870, AC004152, AP006689, AB020688, AC020663, U52112, AP000512, AP000687, AC006211, AF139813, AI117337, AC004854, Z75887, AC005829, AP003529, AC009247, AI049869, L78810, AC004596, AF111169, AI035659, AC007536, AI050348, AC004797, AC006064, Z94865, AP000151, AC010436, U95742, AP000009, AC007216, AC006121, AC004967, Z98884, AC007225, AC004973, AC005823, AP000302, AP000114, AP000046, AC007276, AI031846, Z93241, AC007676, AI031670, AC009069, AI035684, AC004777, AC006468, AI031311, AI080243, Y07848, AC006130, AC000026, AC002059, AI139054, AC005695, AF205588, AC008372, AF196779, U63721, D87675, AC005071, AC005291, AC005874, AF134471, AI034561, AC006456, AI050307, AC002115, AC002302, Z96090, AR004690, AC005377, AC005899, I05096, U80459, AI049737, AC000694, AI031291, Z94055, AC004089, AC003682, AC005011, AI133445, AI109801, AI022323, AC003025, AP000702, AP000703, AC004160, AC005231, AC006312, AP001046, AP000697,



HNGJIP03	4598	860363	1 - 419	15 - 433	AL133163, AF118808, AC005696, AC002347, AP001054, AC007160, AC005245, AC007024, AL022213, AP000511, AL031255, AC007436, AC005070, AL021393, U91321, M19364, AL133353, AL121652, AC004703, AL020997, AC006600, AP000553, AL031984, AC003982, and AC003102.
					RG1498, AA953553, AA450228, AT799264, AF192592, AL012998, AL696793, AW348539, AA601202, AC006019, AL031427, AF001548, AC005220, AL031846, AC002310, Z983304, AC005911, L35930, AF207550, AC004774, AC005800, AL096843, Z98044, AL049631, AC002559, AC005104, AC005072, AP000553, AL022330, AC004967, AC002470, AC004895, AL008726, AC004032, ZS987, AC004797, AL031291, L78810, AC002070, Z84480, AC004966, AL035415, AC005067, AC003047, AC000004, AC004702, AL121655, AL049832, AC004859, AC006195, AL050332, Z95152, AC005280, AC016830, L44140, AL133445, AC006312, AC005670, AC005089, AC004526, AC004491, AC012152, AL031662, AL024308, AC000403, AL251973, Z68886, AF020662, AP000696, AC005037, AC002364, AC000396, AC008043, AF135187, AP000152, AP001069, AC004685, AC006948, AC002288, AC004703, Z81365, AC005875, AC005102, AL109865, AL109798, AC006138, AC007064, AL035413, Z83820, AC004755, AC004929, AC004813, AC005612, AL031229, Y18000, AC005529, AC005071, AL031733, AC006160, U95740, AL022721, AL009172, AC006449, AC004382, AC007073, AL096701, AC005252, AC004000, AC005215, AL117391, AC006378, AC005969, AC007263, AC008038, AL031587, AC008372, AC007371, Z84466, AC003695, AC002091, AL034420, AC016027, AP000513, AC003962, and AF064861.
HNGJIP10	4599	964568	1 - 662	15 - 676	
HNGJIP80	4600	766278	1 - 432	15 - 446	AC006571.
HNGJQ14	4601	881542	1 - 356	15 - 370	
HNGJQ23	4602	789764	1 - 476	15 - 490	
HNGJQ25	4603	924652	1 - 488	15 - 502	
HNGJQ35	4604	707326	1 - 376	15 - 390	
HNGJUR01	4605	916555	1 - 542	15 - 556	AA342681, AA581914, AA775049, T48872, R26134, AT754955, AA441788, AA551798, AT560514, AA077776, AL446474, AA649642, R92640, AA662974, AL445815, AL049996, AW268190, AW265634, AB78792, AL037910, AA483655, AA649553, AA555298, AW021917, AT597832, AT284108, AA780929, AL128592, AA577732, AL455695, AL114752, AL862716, AL865513, AA809189, AA437402, AL284640, AA482896, AA121919, F29989, AA487542, AA167741, T94094, H58472, AA720732, AW188976, R83838, F23255, AA161181, H64777, AW339622, AL043378, AL036854, AW088038, AA747472, T40612, R32200, AA614010, C14692, F17700, AL120245, AA296839, AL865988, AA527730, AW268277, AL888552, H84359, AL214705, AW337454, AW271904, AW189068, AW440633, AL524540, AA501614, W01999, AA516047, T40617, T52478, AA584489, AL079129, AA679872, AL453233, AA595625, AA747375, AA904275, AA515350, AA557879, T47739, AL160117, AA593471, R82388, T06828,

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HNGIS24	4606	677235	1 - 319	15 - 333	AL022147.
HNGIS45	4607	720746	1 - 121	15 - 135	
HNGIS53	4608	728258	1 - 432	15 - 446	
HNGIS64	4609	746606	1 - 409	15 - 423	
HNGIS91	4610	920755	1 - 415	15 - 429	
HNGJT36	4611	888329	1 - 432	15 - 446	AC002483.
HNGJT72	4612	775502	1 - 371	15 - 385	
HNGJT93	4613	792338	1 - 332	15 - 346	
HNGJT95	4614	953418	1 - 345	15 - 359	
HNGJU36	4615	708122	1 - 638	15 - 652	
HNGJU50	4616	724416	1 - 399	15 - 413	AL133216, and AC004883.
HNGJU51	4617	725703	1 - 287	15 - 301	
HNGJU78	4618	860347	1 - 420	15 - 434	
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HNGJIV04	4619	615283	1 - 210	15 - 224	
HNGJIV10	4620	964672	1 - 402	15 - 416	
HNGJIV91	4621	790213	1 - 235	15 - 249	
HNGK462	4622	876593	1 - 508	15 - 522	
HNGKB11	4623	906119	1 - 516	15 - 530	
HNGKB25	4624	944424	1 - 706	15 - 720	AA121830, AW407200, H38504, AA227281, and AL050037.  H53110, AW419161, AA551509, AA878495, AA345333, TW7346, TS1743, AA525047, H81732, AA658235, AA441788, AA773289, AA0134367, AA428414, AA583579, AA602557, AL358343, AA335519, AL366902, AA679493, AW062794, AA583568, AT723017, AU952786, AT707788, F35113, AC0301813, R44592, AU446464, H68343, AT753037, AL042213, AS008509, AA171941, AT73879, AV327868, AA972099, T48872, H439360, AT246796, AA525331, AA557686, AA658018, AL045455, AL335963, AA653964, F00949, AL016704, AL109798, AP000692, AL021579, U02050, AL121603, AC005288, L78833, AC002425, AC004741, AL035684, AC005088, U27336, U27334, AP005555, AC008498, Z98941, AF131211, AC004682, AC007536, AF095069, AC004736, AC006463, AF030453, AB016897, AL050312, AC001228, AC004856, AF106971, AP000315, AP000685, AC005102, AL133448, AP000359, AL121653, AL034379, AC005786, AL133245, AC004158, AP000501, AP000115, Z97056, AP000045, AL035086, AC002301, AL135879, AL121790, AP000089, AP000165, AC006449, AC002236, AC005215, AL135960, AL131016, AP000193, AC004792, AC004985, D16583, AL031846, AL109894, AC004030, AC008040, Z99755, AL022238, AF024533, AC004531, AC008163, AC006432, AP000050, AL031733, Z82185, AC006455, Z85986, AP000177, AP000310, AF050154, AC005972, Z86287, AC002063, AL031905, D87675, AC004383, AC005695, AF109405, AP000118, AF124730, AP000903, AL049832, AC005911, AC002326, AC004129, AL035659, AC007686, AC006561, AL008629, AC005306, AC007199, U75391, AC016026, AL031053, U95742, AC004814, AC002310, AL022574, AC004168, AC005375, AL121578, AC002091, AC006160, U66059, AC004678, AL008718, AP000553, AL133163, AC005225, AL079340, AC0003695, AC002527, AL022721, AC005837, AC007071, L0350681, AC007157

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HNGKB78	4625	971110	1 - 760	15 - 774	
HNGKB93	4626	791760	1 - 291	15 - 305	
HNGKD55	4627	860343	1 - 588	15 - 602	
HNGKD94	4628	793414	1 - 553	15 - 567	
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HNGKE07	4630	932221	1 - 348	15 - 362	
HNGKE52	4631	812714	1 - 575	15 - 589	
HNGKE73	4632	860312	1 - 664	15 - 678	

HNGKE89	4633	786257	1 - 522	15 - 536	AL139228.
HNGKE91	4634	789685	1 - 535	15 - 549	AC004263.
HNGKE93	4635	791623	1 - 462	15 - 476	
HNGKE01	4636	915247	1 - 359	15 - 373	D80038, C14389, D59467, D80227, D80195, D80164, D59275, D59502, AA305578, D80269, D58283, D51423, D59610, C14331, D59859, D80222, D80166, C15076, D59619, D80210, D80391, D80240, D80253, D80043, D59787, D81030, D80193, D80376, D59612, D59979, D80196, D80188, D80025, D59927, D57483, D80241, D80366, D50995, AA305409, D59889, D51022, D80024, D80045, AW177440, C14429, AW178893, AA514188, AA305409, D81026, T03269, D80248, AW179328, C14014, C75259, AW378532, D80572, D80251, AW360811, D80133, D80134, AA514186, AW178762, AW177501, AW177511, D58253, D51250, AW369651, AW178775, AW375405, C05695, D80132, AW352158, D80268, AW376671, F13647, D59655, D52291, D80302, AW352117, AW366296, AW176467, AW360844, AW360817, AW375406, AW378534, AW179332, AP010186, AW377672, AW179023, AW178907, D80168, D80439, D80247, C14227, AW352170, AW352171, AW377676, AW177731, AW178907, AW178906, D81111, AW179019, AW179024, C14298, D59373, D80064, AW177505, AW360841, AW179020, AP058536, C14407, AW178909, AW177456, AW179329, AW178980, D51103, AW177733, AW378528, AW178908, AW178754, AW179018, AW352174, T11417, AW367967, AW179004, D80157, AW179012, AW178914, Z21582, AW378525, AW378540, D51759, AW177722, AW177728, D51097, AW179009, AW178774, AW178911, AW378543, D58246, AW352163, AW360834, D59503, C14077, AW178983, AA285331, T48593, AW178781, AW352120, D58101, D59627, D80258, D59653, A0557751, D45260, AW177723, AW178986, A1535850, AW378533, C14975, AW367950, AA809122, AW177508, D80014, H67854, C03092, D45273, H67866, A1525923, D51213, AW177497, T03116, D59317, D60214, D80228, A1525917, C14344, C14973, AW177734, A1525920, A1535686, D51221, T03048, D59474, D59451, D60010, AA514184, A1525227, A1557774, C14957, C14046, A1525242, A1525235, A1525925, A1525912, A1525215, A1525237, AW378542, AW378539, A1525928, C16955, Z33452, C05763, T02974, T02868, A1525222, AW360855, A1535961, D31458, A84916, A1132110, A62300, A62728, AR018138, AF058696, AR008278, AR028859, X67155, Y17188, D26022, A25909, A67220, D89785, A78862, D34614, B2448, D88547, Y12724, A82595, X82626, AR060385, A94995, AB002449, AR025207, AR016808, AR008443, I50126, I50132, I50128, I50133, AR066488, AR016514, AR060138, A45456, A26615, AR052274, AB012117, AR066482, AR066490, X08127, Y06689, A43192, A43190, AR038669, I18367, AR066487, I14842, A30438, A85396, A63261, AR054175, U87320, A85477, I19525, A86792, D50010, Y17187, D88507, X93549, A44271, AR008277, AR008281, AR008408, AR062872, T09867, AR016691, AR016690, U46128, T13509, T95111, A64136, A68321, AR060133, AF135125, U79457, AF123263, AR032065, U87247, X95535, and AR008382.
HNGKE11	4637	965047	1 - 473	15 - 487	D80045, T18597, A1536138, A1535660, A1541365, A1535639, R29657, AA585439, AA585098, D80045, T18597, A1536138, A1535660, A1541365, A1535639, R29657, AA585439, AA585098,



AA585325, R45895, AW366296, A1557084, D59436, A1541205, R28735, R29445, A1557864, D59751, A1525500, A1557262, D58283, AW375405, R28892, A1557731, A1541356, A1562678, A1525556, Z32887, A1557317, D80043, A1541510, D80166, AA585101, R28965, R28967, A1005856, AA170832, D80022, D80391, D59787, R29218, C14389, A1541535, D80196, AA585476, AA585329, R28895, D80253, D57491, C14331, AA585155, A15547189, D80522, Z32822, AA283326, D80188, D59467, A1525302, D59859, D80195, A1557740, D51423, D59619, D80210, D51799, D80164, D59275, D80240, D80366, D80227, A1526187, D59502, D81030, D59979, D80212, A1541346, D80219, AA585378, D57483, A1557807, C15076, C15406, D59927, D53161, D80269, D61185, D59610, D80038, AA305409, D51022, D59889, D50995, D80193, A1557408, Z28355, D80024, AA305578, A1526140, A1557602, A1557808, A1526158, D80378, C14429, C15069, D60844, AW177440, D81026, D80241, D51060, A1557155, C14014, AW375406, A1526184, A1540974, D80251, A1557852, A1546971, D60765, T48593, A514188, AW178893, C14210, D80248, AW360811, D54897, C75259, C16315, T03269, A1526176, A1541383, D61254, AW179328, A1541517, D53472, AA514186, A1541034, D80133, D80247, C16293, A1546875, A1557771, A1557787, A1557763, A1540903, A1557734, AW178762, A1547230, AW378532, D55233, A1523856, A1546999, A1524891, Z33559, A1526016, D80132, D80439, D58253, C16300, A1547039, D53447, A1535686, AW177501, A1547196, AW177511, A1524890, A1525306, D30843, A1541374, AW377671, AW360844, AW360817, C16294, A1536070, A1557533, A1557718, C15120, AW378534, A1541013, D80134, AW179342, AW377672, AW179023, AW178905, D52835, D80268, D51250, A1541515, AW176467, A1546945, A1525431, C16292, A1546829, AA585356, C16305, AW178775, AW369651, C05695, AW352170, D80168, D80302, A1546855, D52291, T11417, C15762, AW352171, AW377676, AW177505, AW179024, AW177731, AW352117, AW178907, AW378523, AW179019, C14227, A1526194, AW352158, D51103, F13647, AW178906, A1547158, AW360841, D78224, A1525339, AW179020, D80157, A1546921, A1557738, D59373, AW178909, AW177456, A1546996, AW178980, AW179329, A1540967, A1526191, A62298, A82595, AR038855, A62300, U87250, A84916, AR018138, I19525, Y17188, AR062871, AR008429, A85395, A85476, AR016808, AJ132110, A94995, A25909, AR008278, AF058696, AB028859, Y17187, AR031365, AR016514, Y09813, U94592, X67155, A1244007, D26022, A43190, A67220, D89785, A78862, D34614, Y12724, A70872, D88547, AR060385, AB002449, A70869, AR038669, AR037157, A44171, X82626, B2448, A30438, I50126, I50132, I50128, I50133, AR008443, AR031358, AR020207, AR066488, AR060138, A54556, A26615, AR052274, AR050070, AF135243, Z30183, D50010, AF06072, D13509, Y09669, A43192, AR066487, AR034175, X82786, AB005666, A82393, AR062372, I14842, AR066490, AR017826, AB012117, I18367, A63261, A70867, X68127, AR008277, AR008281, AR008408, AR016691, AR016690, U46128, A85396, AR066482, A85477, A86792, X76012, A64136, A68321, AR060133, D88507, AF213384, I79511, X93549, X82834, AF123263, L36913, AR032065, U79457, and AR008382.
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HNGKG83	4638	780453	1 - 608	15 - 622	AA766221, D51799, AA305409, D59859, D59610, D59619, D80210, D80240, C14389, D51423, D80166, D80253, C14331, D80439, D81030, D80227, D80195, D58283, D80212, D80366, D51060, D80188, D59467, D80248, D80022, D80219, D80391, D80164, D59275, D80043, D595787, D59502, D80241, D80038, D80269, D57483, C14014, D59889, D81026, D50995, D80196, D80133, D51022, D50979, D80024, D80268, D80522, D59927, D80247, A5514186, C15076, AA305578, D80193, D80045, AA514188, D80251, D80378, AW360811, C14429, AW17440, D80302, AW178893, D80157, F75259, AW377671, AW375405, D51103, T03269, D51759, AW178906, AW366296, AW179328, AW360844, AW378534, AW360817, AW375406, AW179332, AW377672, AW179023, AW178905, AW378528, AW178762, C05695, AW378532, D59373, ATW16467, AW177501, AW177511, T48593, D80134, AW352171, AW377676, D59653, AW352170, AW177731, D80132, AW177807, AW179019, AW179024, D58253, C06015, D51250, AW178983, D45260, AA360841, AW177505, AW352120, AW367967, AW179020, AW178775, AW369651, AW178909, AW177456, AW179129, AW178980, AW178914, AW178774, AW177733, AW178908, AW178754, AW179018, AW352158, AW352117, H67854, AW360834, AW352970, D80949, D51079, AW179004, D80228, AW367950, AW179012, H678543, AW378525, AW378540, AW352163, AW177728, C03092, H67866, AA809122, D59627, C14973, D80168, T11417, AW352174, C14298, AW179009, D58246, AW178781, AW178911, AW352923, D80162, T13647, D53116, D58101, D80258, D59317, D80014, D59474, C14227, D59503, C14344, D51221, AA514184, C14957, AW177508, D60010, D60214, D51213, A1535686, AW353850, AW378533, AA514184, C14957, AW177508, D60010, D60214, D51213, A1535686, AW353850, AW177734, AW177497, D59551, A1525235, AW177723, A1525227, C14046, A1557774, A1525212, D21582, AW378539, C16955, Z33452, C05763, T02974, T03008, A1525216, A1525222, Z43572, AW352515, A1525242, AA285331, AW378544, A1557751, A1525925, AW360855, A1525239, D51097, A1525237, A1525928, A1525238, D51053, H67838, C04682, Z30160, T02868, N664429, A1405720, A62298, AR0018138, AR0008278, AF058696, A64916, A62300, AB028859, A132101, AW378520, AW360838, AB002449, D26022, X67155, A25909, Y17188, A94995, Y12724, I50126, I50132, I50128, I50133, A67220, D89785, A78862, Z34614, AR008443, AR066488, AR016514, AR060138, A45456, A26615, AR052274, D88547, A43192, A43190, AR038669, Y09669, AR066487, X82626, A30438, I82448, I14842, AR045175, D50010, Y17187, A63261, AR025207, AR008287, AR008281, AR066490, AR008408, A70867, AR062872, I18367, AR016691, AR016690, U46128, A64136, A68321, D13509, AR060133, T19511, X68127, AB012117, AF123263, AR032065, U79457, A1000347, and AR008382.
HNGKG43	4639	958487	1 - 782	15 - 796	
HNGKG61	4640	800317	1 - 408	15 - 422	
HNGKH04	4641	976987	1 - 421	15 - 435	AC002041, AC006352, AP293921, AC002038, AC006359, and AC004057.
HNGKJ30	4642	860205	1 - 314	15 - 328	T05706, AG1271, AF134707, and AG1272.
HNGKB16	4643	784854	1 - 598	15 - 612	AC005939, and AC007488.

HNGK190	4644	787378	1 - 224	15 - 238	
HNGK193	4645	791671	1 - 502	15 - 516	
HNGK191	4646	915231	1 - 682	15 - 696	AC022517.
HNGK138	4647	806053	1 - 619	15 - 633	
HNGK151	4648	883072	1 - 690	15 - 704	
HNGK135	4649	806051	1 - 281	15 - 295	AC005940.
HNGK011	4650	966093	1 - 301	15 - 315	
HNGK129	4651	860305	1 - 285	15 - 299	
HNGK506	4652	974356	1 - 387	15 - 401	
HNGK108	4653	958311	1 - 496	15 - 510	
HNGK169	4654	860302	1 - 675	15 - 689	
HNGK104	4655	926948	1 - 301	15 - 315	
HNGK101	4656	915218	1 - 266	15 - 280	
HNGK154	4657	860206	1 - 146	15 - 160	
HNGK101	4658	915288	1 - 565	15 - 579	AA773098, A1800343, A1743899, R84528, L35485, AF011889, and Z84466.
HNGK146	4659	775300	1 - 341	15 - 355	AL096867, and AB020838.
HNGK134	4660	830026	1 - 299	15 - 313	AI351206.
HNGK125	4661	860260	1 - 725	15 - 739	
HNGK152	4662	835972	1 - 727	15 - 741	AL049691.
HNGK174	4663	860263	1 - 729	15 - 743	
HNGK103	4664	922969	1 - 610	15 - 624	
HNGK108	4665	958312	1 - 1309	15 - 1323	AA149651, A1417864, and AA151561.
HNGK106	4666	839088	1 - 676	15 - 690	AA654505.
HNGK182	4667	785570	1 - 704	15 - 718	
HNGK104	4668	954140	1 - 726	15 - 740	
HNGK104	4669	954943	1 - 608	15 - 622	AL132799.
HNGK120	4670	806045	1 - 535	15 - 549	AA297666, A1859438, A1733856, AA526099, AL046519, AA503298, AA643770, AA721645, AW020992, AA832175, A1244157, A1755214, AA640430, A1754567, AW302659, AW302705, A1079734, AA640410, A1380617, A1754105, A1340817, A1984168, A1176978, A1654247, A1669599, AA468505, AW268757, A1679045, A167792, A1251203, AW190484, AW300650, AA904231, AW151870, AA584620, AA053463, AA857486, AW268954, A1292529, AA652834, A1610737, AW001268, AW004884, AW304805, A1251284, A1345827, A1250552, AA608718, AA135761, A1371208, AA299589, A1565126, AA405726, AW270771, A1251034, AW274350, R62710, A1281561, AA856961, AW338179, AA48610, AA833896, A1537995, AA621381, A1284543, A1061197, AA916171, AA833875, A1135377, T03583, AW303098, AA955031, A1130709, AA492105, A1087133, A1289447, A1133013, AA630854, AA223174, A1356440,

AW157005, AA487475, AL038842, AA659333, A1620992, H07953, A1545779, A1294688, A1247101, AA251356, AA75661, AA765170, A978718, A1567712, T69896, AA564570, AA947374, AC005102, AC004386, AL121595, AC002418, Z98745, AF117829, AC006509, AC005015, AC005678, AC006013, AP000081, AC004458, AC002511, AF069291, AL035249, Z98742, AL021568, AC005939, AC005076, AC004682, U78027, AC006512, AL035422, AC012099, AP000959, AC004985, Z97053, AL034408, AC004087, AL034402, AL079304, AL096817, AC002302, AC006026, AC006312, AC004801, AL121871, Z82176, AL121657, AC005005, AC007437, AC002349, AC005552, AL132987, AP000401, AC004025, AF001549, AL035420, AC006480, AL033375, AC006327, AC005482, AC004003, AP000500, AC007344, AC004817, AC007270, AL031055, AC004383, AL122020, L78810, Z98744, AC0070617, AC004448, AD000092, AC006536, AC004954, AL110502, AC008372, AC002464, Z84466, AC005028, AC006050, AC006116, AL022165, AC005900, Z93931, AC005527, AC002287, AC007537, AL031010, AC006952, AL031294, AL139054, AL008353, AC007051, AC004125, AC005751, Z96050, AC004056, Z94721, AC004000, AL133371, AL049742, AC004797, AP000088, AC004209, AC008064, AL034376, AL109952, AL031407, AC007686, AC004103, AP000356, AD000091, AC007919, AC007380, AL121652, Z95114, AC002288, AE000659, AC005529, AC007242, AC005697, AC003667, AC005378, Z84476, AC005375, AC007685, AP000345, AC000052, AL049198, AP000555, AP000514, AC006840, AC005940, AC004617, AP005235, AC004675, U85195, AC007227, AC004499, AE000658, AC004686, Z84572, AC004024, AL096701, AF088219, AC005570, AC005094, AC005476, AC005828, AC005332, AP000359, AP000228, AL133163, AC007666, AL133448, AC006581, AC007436, AC002432, AC002301, AC007688, Z97630, AF196779, AC008009, AC005971, AC005049, AL049776, AC006441, AC004815, AP000245, AC003091, AF141509, AL078583, U47924, AL096706, AL035427, AL031575, Z95324, AC007877, AL033397, Z95126, AC003070, AP000353, AC006141, AC002559, AC005031, AC005261, AC006946, AP001053, AL132712, AP000072, AP000269, AL031657, AC004859, Z953020, AC005297, AL008582, AF207550, AR036572, U91328, AL050318, AP000103, AC007363, AC000393, AC004827, AC008929, AC003591, AF064860, AC004832, AC005035, AC007637, AC005484, AL050306, AC004019, AP000032, AC004526, AC005946, U80017, AL121694, AC005386, AL031722, AC005696, AC002549, AC006960, AC000026, AL049757, AC004999, AL022237, AL133500, U07562, AC008063, AC008079, AC005089, AC005348, AC005736, AL031255, Z98304, AC005606, and AC004584.	15 - 320	15 - 306	785685	4671	HNGLK13
AL034431, and AL050317.	15 - 572	15 - 508	795280	4672	HNGLK65
	15 - 672	15 - 658	795225	4673	HNGLK90
	15 - 422	15 - 408	923028	4674	HNGLL03
	15 - 411	15 - 397	966105	4675	HNGLL11
T18597, R29657, AA385098, AA385325, R45895, C15406, D59751, C15069, D53161, AA585101.	15 - 649	15 - 635	859922	4676	HNGLL24

HNGI.L31	4677	789193	1 - 402	15 - 416
HNGI.L41	4678	845274	1 - 774	15 - 788

HNGLL67	4679	860253	1 - 405	15 - 419	AC004707, AC004531, Z84476, AC005773, AC000338, AC005747, AC006285, AC004662, AF001549, AL0022316, AC005513, AC003110, AL109627, U63721, AC007276, AL109865, AL049553, AC002407, Z83844, AL0023799, AC004653, AF111168, and AL049758.
					AA638934, AA496268, AI923052, AW069227, AW316599, AI634187, AI457313, AA452335, AW247389, W96277, AI0230873, AA947369, R70883, AA614647, AA077637, AA579399, AA501460, AI270647, AI567391, AA652910, AA620510, AA314338, AI798559, AW405593, AA374797, AA583366, H40478, AA363957, AW408767, T92394, AI699049, AW265688, AA226357, AA357850, AA226356, AA558404, AI004740, N86089, AA747609, AA584484, AA613623, AA493947, AI583978, F16409, AI359200, N25079, U95737, AC004216, AC002351, AC002517, AC007878, Z95152, AC002300, Z93930, AC009399, U07562, AL049832, AC003982, Z92542, AL022165, AC005274, AL022578, Z84466, AC004832, AC005799, AC003664, AC005697, AL003131, AL110502, AL049856, AC004782, AC006965, AL109963, AL004020, AL050307, AC007425, AC004757, AC005962, AL021391, AC004554, L78810, AF027550, AC006449, AL022326, AL031575, AC007684, Z82203, U91321, AF088219, AL031659, AL133355, AC007773, AC005183, AC007011, AC007238, AL031733, AC005018, AL008730, AL049766, AC005728, AC002299, AC004476, AC003957, AC004033, AL135960, AI131016, AC002381, AC005237, Z82217, AC006011, AL109759, AL131163, AL136504, AC005670, AL031737, AC005332, AL050321, AC007386, AL096818, AL033321, AC004820, AC005486, AL049760, AC002312, Z83822, AL023877, AC007546, Z97987, AL030996, AL008718, AL008719, AL049733, Z95116, AC006017, AC006071, AC005476, AC002553, AC002365, AC007216, AC006576, AL022215, AL049650, AL035405, AC005153, AC003983, Z83826, Z84482, AC004408, AC002091, AL022322, AC007314, AC005702, AL049536, AL022400, AL031277, AC004813, AL022721, AL109839, AF031076, AC006060, AC003844, AL049830, Y15994, AL022345, U95742, Z94044, AL035400, AC003687, AC008249, AC005342, AC005859, AL049779, AC006530, AL078638, Z93242, AL049759, AC001311, AF152365, AL031432, AC005668, AL049709, AC006039, AC003684, AF031078, AC007868, AL035634, AF000354, AF030876, AC005411, AC005250, AC005409, AC009784, AC002390, AC007880, AL049869, U47924, AC005411, AC004966, AC003682, AC006130, AC004601, AC005597, AC007999, AL031178, AL021808, AC005284, AC002073, AF111168, AC007376, AL031295, AL117258, U07000, AL023574, and AP000346.
HNGLL91	4680	789743	1 - 407	15 - 421	
HNGLM06	4681	919222	1 - 126	15 - 140	
HNGLO10	4682	963504	1 - 562	15 - 576	DS9859, D51799, C15076, D59502, D80195, C14389, D80164, D80038, D59467, D59275, D80227, D58283, D80022, D80166, D80193, D59619, C14331, D80210, D80391, D80240, D81030, D59787, D51423, D80253, D80043, D80269, D80212, D80196, D80188, D50979,

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HNGLT67	4690	958777	1 - 634	15 - 648	AC004818. HG7866, AA504865, AI699049, TI1828, AI004740, AA316036, AA853861, AA721998, AA714073, AA831801, AA626595, T03928, AW089550, AA832016, AA297496, R16258, AA662614, AW019964, N63735, AA256107, R97626, AI955465, AA525407, AA827383, AW057117, AA628740, AD000833, AC004087, Z82244, AI031431, AI139054, AL049570, Z93017, AP00355, AI078581, AI031680, AP000248, AC006545, AL049829, AC006546, Z83597, AC005191, AI021154, AC006006, AC004494, AC004067, AC004624, AC007030, AC020663, Z99716, AC006312, AC005940, AC005914, AC007536, AI031311, AI109627, AP006096, Z69042, MI1392, AC007766, AC005291, AI031279, AC006211, AC012384, AC008009, AI031003, Z97056, AI133448, AI008583, AC003059, AI096702, AC006376, AC004263, AC005316, AF109907, AC004382, AC005546, AC005071, AI023807, Z96074, Z93020, AC006372, AC007021, AI109956, AC005901, AC005696, AC0031728, AC002375, AI034549, AC004242, D88270, AI049569, AC002430, AC004131, Z84487, AI035659, AF196969, Z97198, AC007384, AC005156, AC007376, AC005913, Z84487, AC008015, AC005519, AC004832, AI022336, AC005792, AI033527, AC002543, Z68331, AC012085, U95742, AI022312, AP000023, AC006057, U66061, AC002350, AC006430, AF001548, U73330, AP000008, AC003317, U82668, AC008055, AC006544, Z98051, AP000466, AC007686, AC003108, AP000704, AC006450, AC000025, AC005839, AC011331, AC004585, AI022313, Z83826, AC004671, AF001550, AC004125, AI035072, Z98941, AC004920, AI022162, AC005154, AC005247, AC005220, AC004158, AI035420, AC006965, AC005509, AI033377, AP000505, AC006942, AC007429, AC006146, AI133163, AC005622, AC004253, AI031657, AC004099, AC005670, Z82217, AI137447, I4294, AC005632, AC0060530, AC005730, AC005005, Z82215, AC005874, AF134471, Z83840, AC005081, and AC005971.
HNGLX63	4691	934371	1 - 591	15 - 605	
HNGMA01	4692	915306	1 - 410	15 - 424	
HNGMA49	4693	860244	1 - 324	15 - 338	NS5508, AA666332, AI828733, W03286, AW327868, D80043, AW277171, AI038799, D80188, AW401408, D80251, AI120959, AI561097, D80366, D80253, AI470431, AW089101, AA846952, AA449594, AA092078, AA668807, AW168420, AA502858, AI912638, AA536016, AI751216, AI470437, AA303007, AI59251, AW380254, AW055226, AI119691, AA083379, AI26372, AW118913, AA487567, AW103509, N40815, AW103758, D80247, TI1417, AA188670, D58283, AW117951, AI124610, AI817976, AA220943, AI674174, D50979, N73855, AA809122, AA502860, D59474, AA446544, AI72222, C16955, D80014, AA572773, AA203135, AI181823, P95119, AI022599, AA312559, AI038072, AA1482345, AW148792, AA828781, AA828758, AA826134, AA828771, AA828802, F01109, AI039375, AA297098, AA853836, F32808, W05405, AA503238, AA315753, AA302973, AA984258, AI044904, AI254913, AA598551, AI135792, AW275425, H67854, AW706480, AA657459, AA828227, AI135743, T08298, AA955609, AI969436, AA587517, AI809745, AA655010, AI038705, AW271235, AI167284, AI025864,



			AI560085, AI084348, D57483, AA384667, AI818737, FI3647, AI122618, D51999, CI4389, AW043636, AI589461, AI589230, AA610373, AA525926, AI027555, AA769402, AI792957, AI800168, AI436601, D80269, H67866, AA048721, AA745475, D80439, D38246, D81030, D59889, AC004695, AC006582, AC004998, AF200465, AC005519, AC002365, Z82901, AI096803, AI049697, AP000967, AC004126, AC006529, AI109827, U72787, AC006121, AC002350, AC004782, AI031286, AC004686, AI078463, Z95152, AC004662, AC005373, AI031775, AC004035, AC004864, AC005993, AC005425, AC005386, AC002203, AC007283, AC006120, AP000555, AC005104, AC007324, AC007100, AC008101, AI022297, AI135959, AC006006, AC009247, Z84469, AI034417, I56088, AC004019, Z97196, AI035695, AC004815, AC005288, AP000496, AC005230, AC005291, AF196972, AF207550, AI031009, Z69713, AF107043, AI021878, AC007993, AF053356, U78027, AF029750, AC003101, AI080243, AC006203, Z84476, AC007021, AI035246, AI035422, AC004865, AI035045, AP000048, AC003042, AI031447, AF030453, AP001067, AC004834, AI035555, AI117352, AI096791, AI049646, AC004526, AC003963, AI031777, AI033563, AC003029, Z98050, AC005479, AC007162, AC005180, AC007541, AC006571, AC006387, D83253, AP000298, AC005567, AI031680, AC004910, AC004220, AF064865, AI031667, AI031589, AF222684, AI121603, AD000833, AF141308, M90058, L35930, Z69917, AD000812, AC004755, AC005624, AC006275, AC002389, Z82190, AC006347, AI049549, AC002126, AC006468, AP000504, AP000113, AI034412, AC005166, AI008730, AI121820, AC004806, AI121756, Z97180, AC004056, AI022722, AI031668, AC004701, Z82198, AI079342, AC004594, AI034548, AC002517, AC004957, AP000350, AP000356, AC004816, AC005747, AI135747, AC006287, AF129756, AC009399, AI049835, AC006057, AC008125, AC005632, AC008072, AC004491, AC007370, AI121578, AC005512, AI109627, AC004895, AC005940, AC005829, AC007425, AC007435, AC005212, AI050325, AC004472, AC005158, AC005702, AF039907, and AC007226.		
HNGMB26	4694	860166	1 - 305	15 - 319	
HNGMB33	4695	773752	1 - 529	15 - 543	RI7449, and N87385.
HNGMC51	4696	860243	1 - 669	15 - 683	
HNGMD03	4697	923041	1 - 487	15 - 501	
HNGMD04	4698	927026	1 - 467	15 - 481	
HNGME93	4699	793483	1 - 528	15 - 542	
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HNGMF04	4700	860242	1 - 705	15 - 719	AA678970, AI054341, AI7992623, AI054090, AI246061, F33126, AA278496, AI135605, AA135988, AI251944, AA135811, AW303098, AA714073, AA657910, AI037430, AA706202, AA515172, AI561210, AI434365, H72943, AI862790, W63553, AI133906, AI133902, AI032350, AA502813, AI636734, AA73549, AA378207, AA862029, AW026867, AA488419, AA527109, AA595504, AA297145, F08866, H24957, AA468975, AI049504, AW392414, AA024443,

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HNGMF11	4701	966114	1 - 147	15 - 161	D30932, R14811, F06803, Z44371, H29207, AC006359, AC002504, and AP001172.
HNGMF46	4702	795236	1 - 443	15 - 457	
HNGMF79	4703	772974	1 - 719	15 - 733	
HNGMF94	4704	966091	1 - 583	15 - 597	
HNGMG06	4705	934318	1 - 380	15 - 394	
HNGMG08	4706	938361	1 - 378	15 - 392	
HNGMH80	4707	775503	1 - 532	15 - 546	
HNGMH03	4708	791725	1 - 415	15 - 429	
HNGMH04	4709	923011	1 - 270	15 - 284	
HNGMH89	4710	786340	1 - 566	15 - 580	
HNGML07	4711	952224	1 - 654	15 - 668	
HNGML53	4712	860240	1 - 654	15 - 668	
HNGMM51	4713	860201	1 - 488	15 - 502	
HNGMM54	4714	933558	1 - 208	15 - 222	AA136477, AL049742, AC006511, AL031295, AL033377, AL031985, AL109963, Z95116, AC006530, AC004963, AL080243, AC004149, AC004106, and AC002565.
					AC004147.
					AC002484.
					AC007787.
					AW239562, and Z83841.

HNGMM187	4715	806036	1 - 468	15 - 482	
HNGMV73	4716	806000	1 - 510	15 - 524	
					AW021116, AF111168, AC007221, Z98742, AC007649, AC005288, L78833, AL021939, AL121825, AC004884, AC004033, U29895, AC005562, AC005500, U80017, AC006966, AC002455, AC004820, and AC007151.
HNGMW52	4717	860231	1 - 583	15 - 597	
HNGMW92	4718	790852	1 - 616	15 - 630	
HNGMX80	4719	786255	1 - 312	15 - 326	
HNGMX87	4720	833612	1 - 521	15 - 535	
					W05155, AA195301, AA424985, AA234376, AA372119, AA724177, H72335, AA316629, and AC004126.
HNGMX91	4721	789680	1 - 330	15 - 344	
HNGNA23	4722	779201	1 - 122	15 - 136	Z69714, and Z72521.
HNGNB01	4723	915258	1 - 70	15 - 84	AA582993.
HNGNE65	4724	963425	1 - 566	15 - 580	
HNGNE40	4725	861967	1 - 676	15 - 690	Z54072.
HNGNG37	4726	847818	1 - 561	15 - 575	AL022241.
					AA579385.
HNGNH03	4727	922831	1 - 566	15 - 580	
					T07903, AL521042, AA135761, AA172103, AA484892, AA68421, AA455699, AL036536, F02264, AA768179, F04183, AA676592, AA846014, AL370470, AA610644, AA613761, H88641, AL205181, AA741403, AL298079, AA558366, AA664126, AA329422, R99076, N78600, AA552724, AA740571, AA297006, AA491767, AW151761, AL702049, AL758424, AA297195, AL002952, M77908, U91326, AC002544, Z83840, Z82208, AL079295, AC005488, AL035086, AL035457, AL020997, AC007240, AL049830, AC007371, AC007227, AC007421, AC004583, AC005520, AC003043, AC005519, AC020663, AC006014, AC006468, AC007308, AC005722, AL049776, AC006387, AC007993, AC004983, AL031848, AC002470, AP000008, AC006241, AL031291, AC005940, AC009516, AC004975, Z83826, AC003688, AL049872, AC004134, AF111168, AC004131, AC006948, AC005377, AL050318, AC006064, AC005665, AC004832, AC002553, AC005274, AC016025, AL096701, AL080243, AC007934, AC005859, AC007537, U91323, AC005014, AL132712, AL022323, AC007226, AP005553, AC002996, AP005569, AC003029, AC003971, U95743, AC002367, AC006088, AC005049, AC000134, AC004883, AL031767, AC005409, AL050348, Z99716, AC005031, AB023050, AC004222, U62293, AL121655, AC002330, AC004185, AL031659, AC018633, AL022721, AC006160, AC005529, AC006077, AL008635, U80017, AC005914, AC007666, U85195, AC006211, AC005215, AC002059, AC006285, AC005057, AC004408, AC005822, AB014077, Z85986, AL132777, AC004854, AL121652, AC007566, Z98048, AC004526, AF196969, AC004895, AC005996, AC008044, AC003101, Z98742, AC006540, AC007774, AF000658, AC006138, AL1008718, AL109758, AL078476, AC005620, AL121923, AC004531, AL049760, AC007546, AL022320, AL049694, AC005512, AF111169, AL031680, AL049540, AC005041, AL080160, AL020993, AL132718, AL034429, AP000114, AL096791, AC008372, AC003109, AC005479, AC004209,

HNGNI04	4728	926985	1 - 480	AC005565, AC000159, AC005067, AC006441, U07563, AL035070, AL035400, AL021707, AC003837, AC007792, AC006101, AC007263, Z29336, AC007207, AC006449, AC005666, AC005193, AC004382, AC007488, AP001550, AC004890, AC006511, U07000, AC006486, AC003098, AC000069, AC009247, AC005255, AC004663, AP000355, U95739, AC010077, AC009509, AL1008708, AC005902, AC005252, AC002347, AC002351, AL109984, AC006121, AC005011, AL109963, AC006487, AC004797, AL022068, AC006312, AL022302, U62317, AC000353, AB023049, AP000090, AP000513, and AL121825.
	4729	781913	1 - 566	AC000404.
	4730	860168	1 - 512	
	4731	893899	1 - 357	
	4732	841902	1 - 300	
AC005356.				
HNGNI04	4728	926985	1 - 480	AA302963, AA559290, AA491814, AT754955, AT264743, AI358343, AA747276, AA682912, AW088202, AT284640, AA747480, AA804379, AI610159, F56273, R91994, AI580652, AA074130, AI801600, AW193432, AA708678, F23279, AI079812, AI053672, AI653886, AW303876, AI569086, F28576, AT749284, AI499938, AW247819, AI902694, AI049722, AI679045, AA515051, AI431303, AI046409, F32894, AI312149, F18974, AI281881, AA649642, AW238016, AW080134, T08914, F25276, W236342, AI119691, AI471481, AI292531, AA306732, AI041412, AI254615, AI287964, AI688846, AA664555, AA503258, T33607, AI947547, W273218, AI301700, AW19262, AA934680, AA714453, T40338, AA664407, AW029038, AI047643, AW301350, AW303196, AW193265, AI299050, AW274349, AI334443, AI358571, AI375710, AI357551, AI709365, AA747472, AT286356, AT252554, AA529785, AI350211, AA745582, AA977743, H64777, AA350839, AA663306, AW440976, W07122, AI291124, AW024008, AA744220, AA469451, AI041706, AI801591, AI761471, AA492132, AI339850, AI473943, AI567674, AI962050, AA525763, AA603445, H64560, AI464646, AW166815, AI446601, AI110770, AA533725, AW276827, AI079910, AA515435, AI291268, AI270248, AI287528, AA654968, AW162049, AW250970, AW062774, AI133164, AI537030, AW131034, AW104748, AW088058, AW023389, AI648558, AA441788, AI030008, AI452599, AI043721, AT289067, AA614069, AI184026, AA810318, T56067, AI937850, AI251002, AI567391, AA100599, AA501614, AI298710, AA537879, AI625244, AA357686, AA826303, AA578918, AI919029, AA715367, AA526339, AA659083, AW021747, AI367975, AA488395, F28776, AA469624, T07451, AI610920, F19012, AW339568, AT246796, AA483068, AI135643, AI624698, AW276435, AI061296, W261817, AI687962, AW173651, AA878140, AA525190, AI287651, AI017024, AA975645, AI904894, AI797919, AA491767, AI568678, AI434695, AA584489, AA702023, AI143242, AH71543, AI205126, AI674873, AA085022, AA658093, AI281697, AA098892, AA152463, AA633936, AI423941, AI282832, AA225155, N25796, AI539563, AW440836, AA828704, AI890923, AW265385, AI469003, AI537955, AI917271,
	4729	781913	1 - 566	
	4730	860168	1 - 512	
	4731	893899	1 - 357	
	4732	841902	1 - 300	
AC005356.				
HNGNI04	4728	926985	1 - 480	AA302963, AA559290, AA491814, AT754955, AT264743, AI358343, AA747276, AA682912, AW088202, AT284640, AA747480, AA804379, AI610159, F56273, R91994, AI580652, AA074130, AI801600, AW193432, AA708678, F23279, AI079812, AI053672, AI653886, AW303876, AI569086, F28576, AT749284, AI499938, AW247819, AI902694, AI049722, AI679045, AA515051, AI431303, AI046409, F32894, AI312149, F18974, AI281881, AA649642, AW238016, AW080134, T08914, F25276, W236342, AI119691, AI471481, AI292531, AA306732, AI041412, AI254615, AI287964, AI688846, AA664555, AA503258, T33607, AI947547, W273218, AI301700, AW19262, AA934680, AA714453, T40338, AA664407, AW029038, AI047643, AW301350, AW303196, AW193265, AI299050, AW274349, AI334443, AI358571, AI375710, AI357551, AI709365, AA747472, AT286356, AT252554, AA529785, AI350211, AA745582, AA977743, H64777, AA350839, AA663306, AW440976, W07122, AI291124, AW024008, AA744220, AA469451, AI041706, AI801591, AI761471, AA492132, AI339850, AI473943, AI567674, AI962050, AA525763, AA603445, H64560, AI464646, AW166815, AI446601, AI110770, AA533725, AW276827, AI079910, AA515435, AI291268, AI270248, AI287528, AA654968, AW162049, AW250970, AW062774, AI133164, AI537030, AW131034, AW104748, AW088058, AW023389, AI648558, AA441788, AI030008, AI452599, AI043721, AT289067, AA614069, AI184026, AA810318, T56067, AI937850, AI251002, AI567391, AA100599, AA501614, AI298710, AA537879, AI625244, AA357686, AA826303, AA578918, AI919029, AA715367, AA526339, AA659083, AW021747, AI367975, AA488395, F28776, AA469624, T07451, AI610920, F19012, AW339568, AT246796, AA483068, AI135643, AI624698, AW276435, AI061296, W261817, AI687962, AW173651, AA878140, AA525190, AI287651, AI017024, AA975645, AI904894, AI797919, AA491767, AI568678, AI434695, AA584489, AA702023, AI143242, AH71543, AI205126, AI674873, AA085022, AA658093, AI281697, AA098892, AA152463, AA633936, AI423941, AI282832, AA225155, N25796, AI539563, AW440836, AA828704, AI890923, AW265385, AI469003, AI537955, AI917271,
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	4730	860168	1 - 512	
	4731	893899	1 - 357	
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AC005356.				
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HNGNO03	4733	860155	1 - 518	15 - 532	
HNGNR04	4734	926870	1 - 599	15 - 613	
HNGNS10	4735	963470	1 - 719	15 - 733	
HNGNS58	4736	788971	1 - 306	15 - 320	

HNGNS90	4737	787388	1 - 453	15 - 467	
HNGNV80	4738	908167	1 - 440	15 - 454	
HNGNV04	4739	860199	1 - 439	15 - 453	
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HNGNW85	4740	783747	1 - 447	15 - 461	Z83846.
HNGNX37	4741	806018	1 - 683	15 - 697	AC004549.
HNGNX65	4742	806042	1 - 706	15 - 720	AC007376.
HNGNZ01	4743	860158	1 - 507	15 - 521	AA853836, AL046225, AL045756, AL049569, AB023050, AP000511, AL031681, AC006946, AC004216, AC009301, AC002117, AL022165, AC006011, AC006057, AC005237, AC005179, AC004887, AC005102, AC005520, Z83846, AC004491, AP000350, U95090, AC004967, AC004617, AC005488, AC005037, AC006167, AC007193, AL033524, AC005082, AC003684, AC007021, AP000512, AC004832, AF064858, AF030453, AC005088, AP000065, AL049869, AL049843, and AC004408.
HNGNZ38	4744	790926	1 - 562	15 - 576	AC000025, AC005527, AC002991, AC005529, X89398, and AC007637.
HNGNZ91	4745	839887	1 - 508	15 - 522	AA923791.
HNGOA11	4746	966082	1 - 512	15 - 526	
HNGOA82	4747	779154	1 - 435	15 - 449	
HNGOB95	4748	791700	1 - 502	15 - 516	
HNGOD68	4749	790805	1 - 288	15 - 302	
HNGOE64	4750	860143	1 - 551	15 - 565	
HNGOF50	4751	796548	1 - 501	15 - 515	
HNGOF84	4752	782188	1 - 320	15 - 334	
HNGOF85	4753	783717	1 - 792	15 - 806	
HNGOG49	4754	971178	1 - 667	15 - 681	
HNGOI42	4755	958943	1 - 506	15 - 520	U73641.
HNGOI86	4756	806013	1 - 639	15 - 653	
HNGOI13	4757	921433	1 - 325	15 - 339	
HNGOI64	4758	860193	1 - 473	15 - 487	
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HNGOK59	4759	789689	1 - 244	AC006274.
HNGOK86	4760	784813	1 - 703	
HNGOL14	4761	860185	1 - 342	AW169469, A1648538, AA563844, AA491697, F32710, AA917906, N71340, N71390, AA584151, AA993165, H91338, A1633783, AA487995, AW193500, W24602, AW173443, A1925559, AA598617, AA487884, A1040948, W38468, AA479003, AA742775, R59668, T50568, AA721561, AA148656, T50436, AA361244, AA402102, A5922633, A1687542, AA229443, A1635819, AA424280, A1150131, A1914151, H80203, AA0077646, T52997, A1048002, A1863176, A649660, T86151, A1047480, T16065, A1557342, A1564215, AA348422, A1697727, W44607, N35012, R11793, A1138242, A1274006, AA470958, A1921692, A174381, A1567831, A1445768, AA363150, AA386533, D25667, AA374525, A1889648, A1613487, A1336206, AA427747, AA679512, A1689135, AA010672, T61362, AA837739, AA493852, AA568314, AA491545, W79083, AA507990, A1912505, A1188963, AA078384, R30966, A1628482, AA984829, AW029626, A1888050, H73306, M77894, A1538433, R68503, A632493, A4632484, AA384064, AA837796, A1885488, AA713534, AW236277, AA650348, A845333, A5245504, H47461, A1754286, W45073, A1215784, H05449, A4576099, A1572680, R81455, A632994, AP005558, A1035420, AC005183, AC009516, AC006582, A1079342, AC006031, A1079534, AC006487, Z93096, AC003025, AF119813, AP000356, AC006536, AC004228, AC005138, AC003387, AC004622, A1096791, A1035462, A1049569, AC000666, Z99128, AP000835, AC000120, A1010770, AC000379, A1031276, AC002312, AC006042, Z68870, A1031389, A1009181, A1023284, Z97183, A1049694, A1035086, AP000317, AP000051, AP000119, AP000166, A1006952, AC007263, A1880286, AC005837, A1132985, Z86090, A1096774, AC004134, AC005913, AC003071, AC005972, AC005578, AC000085, AC003693, A12121754, A1006345, AC004701, A1109963, AC005562, AC002044, A1049856, A1035417, A1031670, AC005043,



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HNGO02	4762	953888	1 - 143	15 - 157
HNGOP04	4763	926972	1 - 411	15 - 425
i.NGOP10	4764	963483	1 - 438	15 - 452
HNGOS22	4765	860176	1 - 443	15 - 457
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				15 - 412	
HNGOV03	4766	922963	1 - 398	15 - 298	
HNGOV65	4767	921416	1 - 284	15 - 422	
HNGOV13	4768	926929	1 - 408	15 - 694	
HNGOV01	4769	915210	1 - 680	15 - 386	
HNGOV10	4770	915012	1 - 372	15 - 248	
HNGOV17	4771	880777	1 - 234	15 - 435	
HNGPH12	4772	969683	1 - 421	15 - 695	
HNGPI08	4773	947384	1 - 681	15 - 711	
HNGPI23	4774	855983	1 - 697	15 - 608	
HNGPI51	4775	805997	1 - 594	15 - 510	
HNGPI91	4776	959740	1 - 496	15 - 545	
HNGPN01	4777	913782	1 - 531	15 - 590	
HNGPN46	4778	954997	1 - 576	15 - 514	
HNGPP61	4779	860145	1 - 500	15 - 189	
HNGPR03	4780	949269	1 - 175	15 - 604	
HNGPS10	4781	963469	1 - 590		
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HNHAB29	4782	860141	1 - 132	15 - 146	
HNIAB93	4783	527921	1 - 136	15 - 150	
HNIHA77	4784	527911	1 - 123	15 - 137	
HNIHAG50	4785	527815	1 - 217	15 - 231	
HNIHAG51	4786	725898	1 - 222	15 - 236	
HNIHAG64	4787	527809	1 - 234	15 - 248	
HNIHAG84	4788	860118	1 - 411	15 - 425	
HNIHAB84	4789	527806	1 - 471	15 - 288	
HNIHAN11	4790	967668	1 - 479	15 - 493	

HNHAI15	4791	860128	1 - 115	15 - 129	
HNHAI68	4792	527572	1 - 151	15 - 165	
HNHAI59	4793	703576	1 - 404	15 - 418	
HNHAK83	4794	574391	1 - 307	15 - 321	
HNHAI79	4795	574384	1 - 125	15 - 139	
HNHAW75	4796	515480	1 - 637	15 - 651	
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					AA594550.
HNBHC30	47997	693118	1-250	15-264	
HNBHE19	47998	724404	1-349	15-363	
HNBHB62	47999	577387	1-308	15-322	
HNBHB72	4800	577334	1-386	15-400	
HNBHK22	4801	574305	1-259	15-273	
HNBHK59	4802	959771	1-292	15-306	
HNBHKB80	4803	721688	1-227	15-241	
HNBHBM63	4804	574310	1-290	15-304	
HNBHBM66	4805	860119	1-361	15-375	
HNBHO20	4806	793416	1-652	15-666	Z65368.
HNBHO71	4807	868059	1-310	15-324	
HNBHO83	4808	526746	1-223	15-237	
HNBHSQ53	4809	574090	1-162	15-176	AC003954.
HNBHS07	4810	953850	1-411	15-425	
HNBHS23	4811	574048	1-314	15-328	
HNBHS38	4812	925693	1-956	15-970	
HNBHU20	4813	608866	1-243	15-257	
HNBHU21	4814	574030	1-350	15-364	
HNBHU37	4815	574139	1-326	15-340	
HNBHU79	4816	597123	1-255	15-269	AC005067.
HNBHU82	4817	577193	1-382	15-396	AW005603, AA5504818, AW021007, A.A632556, AU054090, AU246061, AA135988, AA714073, AL678476, AA244181, AS191134, AW079667, AD343669, AI309121, TS5707, AH445373, T07225, AB678407, N06927, N09399, AT049701, AA493447, AG63765, AH714647, AI185394, F18761, AA135811, AH431513, AL439676, H79586, AI869786, AA657910, AI300413, AI342786, AA995373, AI869797, AA713705, AI284543, AA599749, AI762302, R83068, AI342786, AA597367, AI251944, AI251034, AI251203, AI251284, AI800706, AA613162, H93717, AG65196, H42893, F31811, AW0070424, AI884861, AD250552, AW303098, H43183, AA527109, AA845825, AA678616, AD23968, NS2293, AS804729, AI049504, AI302277, AA561210, AA569734, AI099041, AI002762, A.A325250, AI915081, AI564301, AA376896, AI251024, AI143653, AI250967, AI249853, AA595636, R71796, AI628859, AA744048, AW019964, AA358337, AI137946, AI137946, AI567941, AA78962, AA226770, AA083681, AA594227, H86579, AA632839, AA083839, AA053463, AA568425, AI609574, AA565911, AA744428, AI539822, AI300818, AI310992, AA856866, H52472, AI653783, F08214, W78056, R80563, AA656957, AT733647, AI733647, AI733662, AA73976, R35259, AI453160, AA499579, Z96216, L78442, AI078621, AC005015, AI022311, AC004887, AC006516, AC008101, AC008070.

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HNHB091	4819	753550	1 - 320	15 - 334
HNHB092	4820	757445	1 - 404	15 - 418
HNHB093	4821	574026	1 - 236	15 - 250
HNHB094	4822	936012	1 - 356	15 - 370
AL173213, A1732289, R48562, R69392, AA598605, A1828938, L748780, AA525331, AA302978, AC039257, AA857812, AA809087, AA646975, AA351427, AA862075, AA225273, AA156323, AL047571, A1537020, AA481887, AA828884, AA613761, AA551105, AA570238, AA90421, A1719298, AA878492, H901144, T07327, F00688, A1984118, AA368616, A640247, AA502991, A1064786, AA135988, A4911767, R067030, A6612727, Z4497189, AA879006, A066211				

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HNHBV45	4823	774280	1 - 377	15 - 391	AC006262, AF165926, AC004821, and AL022336.
HNHBV60	4824	964712	1 - 218	15 - 232	AL031654.
HNHBV83	4825	694401	1 - 478	15 - 492	AC004258.
HNHBV03	4826	924873	1 - 387	15 - 401	
HNHCC42	4827	577343	1 - 345	15 - 359	
HNHCC63	4828	574309	1 - 384	15 - 398	AC007758.
HNHCE68	4829	574028	1 - 425	15 - 439	
HNHCE75	4830	679154	1 - 407	15 - 421	
HNHCE35	4831	860112	1 - 409	15 - 423	
HNHCE39	4832	574084	1 - 117	15 - 131	
HNHCE68	4833	753558	1 - 237	15 - 251	AC005390.
HNHCE71	4834	760565	1 - 225	15 - 239	
HNHCE80	4835	786033	1 - 485	15 - 499	
HNHCL20	4836	780527	1 - 420	15 - 434	AA135377, A1016828, AA572714, Z77249, AC005899, AL022336, Z96074, AC004841, AF111168, AL049780, AL035249, AF048728, AL080317, AC004605, AC009721, AC005033, AC005067, AL049776, AC004797, AC006544, AF205588, AP003300, AC008372, AC009509, AL031733, AP000045, AP000113, AC004593, AL031276, AC010205, AC003409, AC005619, AL139054, AL034423, AC005015, AC016831, AL035415, AC005081, AL031577, AC004659, AC004589, AL022400, AC004983, AB022785, AP000065, AC004925, AC005740, AC004895, AF017104, AC006063, AL009181, AC004923, AC005355, AL022326, AP000512, AC004707, AC001226, AC003663, Z98200, AC005058, AL049872, L78833, and AL096701.
HNHCL38	4837	574082	1 - 211	15 - 225	AA362218.
HNHCL47	4838	719476	1 - 264	15 - 278	
HNHCL80	4839	573010	1 - 279	15 - 293	
HNHCL90	4840	577186	1 - 187	15 - 201	AC009405.
HNHCO27	4841	574337	1 - 205	15 - 219	
HNHCO48	4842	860641	1 - 425	15 - 439	
HNHCO64	4843	574147	1 - 392	15 - 406	AC007559.
HNHCP18	4844	666844	1 - 196	15 - 210	AP000350.
HNHCP22	4845	934307	1 - 573	15 - 587	
HNHCP37	4846	866950	1 - 361	15 - 375	
HNHCP78	4847	506696	1 - 312	15 - 326	AW419246, and AW277087.
HNHCP88	4848	574341	1 - 228	15 - 242	
HNHCO70	4849	757410	1 - 431	15 - 445	R69234, H70121, and AC005071.
HNHCU18	4850	574394	1 - 118	15 - 132	



HNHCL42	4851	850918	1 - 664	15 - 678	AI539360, AC003007, and AC005632.
HNHCL57	4852	735005	1 - 226	15 - 240	
HNHCV72	4853	766213	1 - 387	15 - 401	R38821, and AF070579.
HNHCZ07	4854	953881	1 - 321	15 - 335	
HNHCZ23	4855	574325	1 - 318	15 - 332	AI366208, AC002041, AC002038, AC006352, and AI239321.
HNHDA07	4856	855988	1 - 443	15 - 457	
HNHDA79	4857	574350	1 - 140	15 - 154	
HNHDA88	4858	574150	1 - 147	15 - 161	
HNHDB11	4859	574323	1 - 488	15 - 502	
HNHDB23	4860	676290	1 - 488	15 - 502	
HNHDB46	4861	574329	1 - 488	15 - 502	
HNHDB93	4862	800661	1 - 60	15 - 74	
HNHDC26	4863	574304	1 - 341	15 - 335	
HNHDC47	4864	708705	1 - 329	15 - 343	
HNHDC83	4865	577339	1 - 421	15 - 435	
HNHDC93	4866	734794	1 - 196	15 - 210	
HNHDE38	4867	709277	1 - 334	15 - 348	R67093, AW316599, AL121287, AI313157, AA807556, AA188940, R91931, AA491440, AI453160, AI564294, AA683069, AA632765, AW081324, AI471467, AL041895, AA614595, AA564682, AA469441, AA314338, AW07424, AA366847, AW028834, AI891075, AW058223, AJ011930, AJ003147, AL022724, AL096761, AC002477, AL031592, AL049539, AC002357, AL024498, AC005599, AC005082, Z96776, AC003108, AL096766, Z84469, AL020997, AP000555, AL031311, AC002418, AC007993, Z83843, AC004386, AC005778, AL109952, AC004770, AC005015, AC002472, AC005625, AC012039, AC006293, AB003151, AP000688, AC005245, AC005777, AL034582, AP000502, AC002394, AF019413, AL049537, AL133448, AF134726, Z69721, AC000069, AC002314, AC000095, AC007326, AC005726, AL133445, AC006449, AC004031, AC006071, AC005998, AC005484, AC005005, AC005288, AC005514, Z82243, AI239325, AC004834, AL008583, AC003982, AL121603, AC004882, AC005081, AC005529, AC004131, AB017602, AC004883, and AC000025.
HNHDF31	4868	968249	1 - 223	15 - 237	AC006560.
HNHDF48	4869	574385	1 - 200	15 - 214	
HNHDF06	4870	936046	1 - 327	15 - 341	
HNHDF60	4871	860101	1 - 314	15 - 328	
HNHDI62	4872	577701	1 - 213	15 - 227	
HNHDI90	4873	789082	1 - 466	15 - 480	
HNHDI94	4874	773592	1 - 312	15 - 326	
HNHDM03	4875	924713	1 - 389	15 - 403	

HNHDM40	4876	711352	1 - 341	15 - 355	AC007052
HNHDM50	4877	724550	1 - 539	15 - 553	H41308, H94134, H37815, H51061, H69577, U47924, AL049872, AP000121, AF111169, AC005332, U63721, AL031681, AC005839, AP000321, AL022165, AC005280, AC005412, AC002310, AC005488, AC005736, AC004895, AC005015, AC005180, AF001549, AC006120, AC006965, AC004983, M15938, AC007151, AC004797, AC005081, Z99716, AC002470, AL133245, AP000167, AP000052, Z93241, AL023553, AC004998, AC004686, AC007312, AC006088, Z93017, AL049776, AC004815, AC004923, AP000113, AC006211, AC003109, AC003108, AC004596, AL139054, and AC002519.
HNHDM74	4878	506621	1 - 423	15 - 437	
HNHDM27	4879	573388	1 - 188	15 - 202	
HNHDM79	4880	735007	1 - 304	15 - 318	
HNHDM94	4881	859888	1 - 738	15 - 752	
HNHDM29	4882	746093	1 - 340	15 - 354	
HNHDM11	4883	967334	1 - 482	15 - 496	
HNHDM17	4884	573328	1 - 347	15 - 361	
HNHDM35	4885	707334	1 - 325	15 - 339	
HNHDM39	4886	704560	1 - 147	15 - 161	
HNHDM36	4887	577256	1 - 494	15 - 508	
HNHDM65	4888	573357	1 - 337	15 - 351	
HNHDM71	4889	496246	1 - 570	15 - 584	
HNHDM93	4890	923817	1 - 416	15 - 430	
HNHDM10	4891	968082	1 - 367	15 - 381	
					AL053568, AA570255, AV069227, AW161879, T05834, AC007276, AP000355, AP000356, AL049795, U91326, AC005071, AL024507, AL035447, AC005081, U91323, AC007637, AL022476, AC004167, AC004491, AL031311, AC002563, AC005480, Z75407, AL008582, AC002425, AC004821, U91318, AC004099, AC005089, AF111168, AL024498, AC002073, AC005500, AC007192, AC002094, AP000512, U78027, AC005412, AC000379, AC005067, AC005212, AC007216, AL022165, AL021918, AL031432, AL035249, AC005736, AC007387, AC005520, AC007842, AC007421, AC007225, AL133163, AL132712, AL031587, AC002472, AC005971, AC005193, AB003151, AC004765, AC005015, AF030453, AC008018, AC005821, AL031255, AC005696, AL049589, AC005180, U25956, AC005088, AL133312, AL031680, AC006480, AC004125, AC007664, U95740, AF165926, AC008101, AC005011, U52111, AC005523, AC006449, AC004067, AC005091, AC005189, AC006023, AC005730, AC006581, AC007566, AC006487, AC004143, AL049843, AP000557, AC005094, AC005280, AC005261, AC005274, AC004033, AL050338, AF001550, AC000134, AC005839, AL121603, AF069074, AC002126, AL133243, AP000116, Z98044, AC005488, AL031683, AL031685, AF053356, AL133246, AL022316, AC005338, AC005722, AL031795, AC006211, AC006251, AC004019,

					AC004663, AC006277, AF196779, AL004549, AL008730, AL049776, AC004801, AC004859, D84394, AL049872, AL022311, AP000689, AC002369, AP000113, AP000045, AP000555, AC004882, AP000509, Z93930, AL096703, AL117694, Z95114, AC006130, AC005914, AC004991, AC000729, AC006241, AC009247, AL049539, AL022313, AC004662, AC001109, AC002350, AC005568, AC004815, AC007193, AL096773, AC002470, AC007292, Z83844, AC004983, AL139054, AC004893, AC007308, AC009464, U73479, AC012039, AL023553, AC006441, and AC010170.
HNHDR28	4892	685580	1 - 410	15 - 424	AW086034.
HNHDR71	4893	573480	1 - 451	15 - 465	
HNHDR57	4894	683585	1 - 246	15 - 260	
HNHDR53	4895	573347	1 - 200	15 - 214	
HNHDR58	4896	573349	1 - 334	15 - 348	
HNHD701	4897	917004	1 - 369	15 - 383	
HNHD728	4898	887158	1 - 447	15 - 461	AA311373, AA318324, AL623755, AW763181, AL979227, AA423972, AW193871, AL048971, AP000528, AP000529, and AC004527.
HNHD742	4899	574455	1 - 245	15 - 259	
HNHD754	4900	728871	1 - 482	15 - 496	
HNHDU83	4901	717796	1 - 428	15 - 442	
HNHDV50	4902	506622	1 - 275	15 - 289	
HNHDV84	4903	750262	1 - 372	15 - 386	
HNHDV78	4904	723189	1 - 271	15 - 285	
HNHDV80	4905	779334	1 - 329	15 - 343	
HNHDV84	4906	615272	1 - 230	15 - 244	
HNHDY18	4907	573329	1 - 367	15 - 381	
HNHDY37	4908	582473	1 - 187	15 - 201	AL809475.
HNHDY45	4909	576776	1 - 320	15 - 334	AA320060, AA581317, AA488419, W96277, AA554958, AA020873, AL923052, AL207534, Z84484, AC004912, AC005015, AC004813, AL009181, AC005914, AL024507, AL022312, AL023876, AL096775, AC002126, AC004408, AC005207, AL132987, AC006450, AC006576, AC004070, AL034423, AP000036, AL050306, AC002412, AP000099, AC006121, AL132796, AC008012, AC008372, AP007563, AC004034, AP000353, AC004890, AC004031, AC004656, AP000466, AP000322, AP000168, AP000053, AP000133, AP000211, Z97989, AC004910, AC007938, AL117355, AL035460, AC006277, AC002077, AC004763, AC005899, AC004585, AP000121, AC003029, AC006581, AC002511, AP000563, and AC002546.
HNHDY50	4910	924211	1 - 163	15 - 177	
HNHDY54	4911	945708	1 - 581	15 - 595	
HNHDY83	4912	795954	1 - 243	15 - 257	AL031274, Z98941, AC010582, and AL121576.

HNHDZ14	4913	506738	1 - 312	15 - 326	AL033525
HNHDZ26	4914	419716	1 - 418	15 - 432	AW024707
HNHDZ69	4915	573346	1 - 236	15 - 250	
HNHEA06	4916	835893	1 - 340	15 - 354	
HNHEA21	4917	574868	1 - 229	15 - 243	E04378, and D10017
HNHEA40	4918	573327	1 - 273	15 - 287	
HNHEA96	4919	796491	1 - 330	15 - 344	AA322484, AA501575, and AA339577
HNHEB47	4920	573339	1 - 185	15 - 199	
HNHEB88	4921	412655	1 - 128	15 - 142	
HNHEC40	4922	576507	1 - 347	15 - 361	
HNHEC51	4923	577306	1 - 406	15 - 420	
HNHEC96	4924	796463	1 - 356	15 - 370	
HNHED02	4925	920414	1 - 394	15 - 408	
HNHED51	4926	682992	1 - 673	15 - 687	
HNHED82	4927	576541	1 - 410	15 - 424	Z82249
HNHED83	4928	576540	1 - 317	15 - 331	
HNHED25	4929	576512	1 - 371	15 - 385	AI636627, AC004916, AC007878, AL008987, AL023799, AL080317, AP000959, AF064866, AC006965, AL096707, AC006441, AL035443, AC006487, AC006948, AL021329, AL022163, AF001905, AC005053, AC006324, AC007748, AC005826, AC007182, AC002476, AC005844, AC008170, AC003983, AC006368, and AF043945
HNHEE30	4930	576440	1 - 425	15 - 439	
HNHEE38	4931	860073	1 - 227	15 - 241	
HNHEE40	4932	576442	1 - 423	15 - 437	AF130343
HNHEE49	4933	576820	1 - 396	15 - 410	
HNHEF01	4934	916792	1 - 336	15 - 350	AL031447
HNHEF73	4935	576419	1 - 261	15 - 275	
HNHEG28	4936	586443	1 - 322	15 - 336	
HNHEG32	4937	576426	1 - 420	15 - 434	
HNHEG49	4938	576415	1 - 372	15 - 386	
HNHEG68	4939	861181	1 - 286	15 - 300	
HNHEG91	4940	506278	1 - 346	15 - 360	
HNHEH04	4941	582732	1 - 329	15 - 343	
HNHEH37	4942	490514	1 - 495	15 - 509	
HNHEH41	4943	578589	1 - 298	15 - 312	AA357626
HNHEH51	4944	678114	1 - 438	15 - 452	
HNHEH52	4945	860021	1 - 398	15 - 412	N57205, AI312090, AI312784, AC004885, AC004584, AC006511, AC003982, AL021391, and

				AL031003.	
HNHHE60	4946	576517	1 - 391	15 - 405	
HNHHE06	4947	523080	1 - 363	15 - 377	
HNHHE64	4948	576549	1 - 315	15 - 329	
HNHHE07	4949	953586	1 - 427	15 - 441	AA115161, AL121825, and AP00547.
HNHHE11	4950	967265	1 - 731	15 - 745	
HNHHE23	4951	576533	1 - 364	15 - 378	
HNHHE24	4952	916556	1 - 221	15 - 235	
HNHHE44	4953	716723	1 - 303	15 - 317	AC006464.
HNHHEJ57	4954	576535	1 - 234	15 - 248	
HNHHEJ85	4955	964882	1 - 149	15 - 163	
HNHHEK01	4956	916790	1 - 452	15 - 466	
HNHHEK63	4957	576819	1 - 453	15 - 467	AJ009794.
HNHHEK79	4958	954548	1 - 319	15 - 333	
HNHHEK83	4959	576420	1 - 325	15 - 339	
HNHHE09	4960	576418	1 - 309	15 - 323	
HNHHE137	4961	713723	1 - 587	15 - 601	AJ223321.
					AI312582, AI054244, AA491864, AW275432, AI683131, AA715814, AW338651, AI569401, AI278972, AA533054, F30650, AI270646, AA533880, AA526625, AA526326, AI590442, AI620668, AI821805, AI880329, AA552590, AL037632, AL042230, AC005193, AC005049, AL080243, AC005519, U91318, AC004882, AC005829, AC004802, AL031597, AC004675, AF083655, AC004212, AF088219, AC007546, AC002350, AC004150, AC005484, AL035495, AC004983, AC008044, AC004024, AC005212, Y18000, AL078460, AL050307, AC005903, AC007384, AL109753, AC006480, AL021877, AC006544, AC000039, AL021808, AC006014, AC004796, AC002045, AC006241, AC002369, AL031846, AL096791, AL033527, AC005529, AC005768, AC004967, AL022326, AC004662, AL133163, AP00512, AC005046, AL031670, AF031078, AL031432, AC004678, AF111168, AC004993, AC002126, AB023049, Z85986, AC000367, AF030876, AC007226, AC004084, AC004491, Z82203, AC004448, AC007774, Z93023, AC005488, AC003962, AF011920, Z82176, U95090, AC006120, Z97053, AL136504, AC002430, AC005409, AC006538, AC006211, AC006958, AC005088, AC002091, AC007537, AC004777, AL035450, AL031311, AC008134, AF134726, AL049869, AL022165, AC005015, AP000347, AL022320, AC005086, AC004019, AL078593, AC005702, AF190465, AL049776, AL049872, AL135960, AL131016, AC007308, AC006679, AC006115, AC010205, AC004859, AL021391, AF000452, AL009181, AL022328, AF207550, AC003029, AC004601, L48038, AL031803, AL117694, AC004841, AL132992, AC002565, AL021394, AF196779, AC005755, AC004913, Z97054, AC004526, AC007057, AL050308, AL050332, AP000556, AF185589, AL133371, AL023807, AC005412, AL109627, AC005235, AC005562,

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HNHEL42	4962	859830	1 - 448	15 - 462	
HNHEL44	4963	576423	1 - 254	15 - 268	
HNHEL53	4964	506281	1 - 360	15 - 374	
HNHEL82	4965	576430	1 - 579	15 - 593	
HNHEL94	4966	786930	1 - 410	15 - 424	
HNHEN04	4967	950725	1 - 350	15 - 364	
HNHEN34	4968	860047	1 - 343	15 - 357	
HNHEN35	4969	576424	1 - 339	15 - 353	
HNHEN83	4970	825334	1 - 594	15 - 608	
HNHEN85	4971	783480	1 - 332	15 - 346	
HNHEN02	4972	920420	1 - 420	15 - 434	
HNHEN16	4973	615402	1 - 420	15 - 434	
HNHEN56	4974	733521	1 - 432	15 - 446	
HNHEN66	4975	576544	1 - 432	15 - 446	
HNHEN76	4976	576542	1 - 437	15 - 451	
HNHEO29	4977	576548	1 - 427	15 - 441	
HNHEO43	4978	860046	1 - 690	15 - 704	
HNHEO83	4979	706683	1 - 196	15 - 210	
HNHEO84	4980	859992	1 - 420	15 - 434	
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					AA761183, AA806545, AA651905, AA811074, AA836161, AW341564, AW404901, AL393457, AW292488, AL671881, AA741473, AA281261, and AA994866.
					AL040165, T59913, AF109718, AC004916, and AC004987.
					AL031668.
					Z82975, and AC007102.
					N25067, AL741934, R93919, AA854983, AA065087, AA159978, and AF196971.
					T62624, AA018757, AA457771, AL043721, AL198376, AH471572, AW077923, AA482810, R83097, AL131163, AC005971, AC005288, AC006079, AL050309, U96629, AL031311, AC004814, AL022238, AC005899, AC005614, AC005011, AF000215, AC007546, AC004019, AC004150, AC003251, AC000257, AC007666, AC005602, AC005696, AC002344, U91326, AF196779, AL050332, AC004596, AP000030, AC003662, Z95331, D84394, AC005412, AC005034, AC006241, AC005531, AC004895, AL121653, Z82215, AC005703, AC012627, AC006049, AC004253, Z85987, AC007934, AC006312, AL080243, AC005823, Z85986,

					AC006379, Z83844, AC005858, AL049636, AP000555, AC007565, Z21688, AC007011, and AL080333.
					AF109076.
HNHED49	4981	576453	1-326	15-340	
HNHED07	4982	953577	1-438	15-452	
HNHED06	4983	576437	1-297	15-311	
HNHED06	4984	576455	1-226	15-240	
HNHED07	4985	577188	1-423	15-437	
HNHED02	4986	576456	1-349	15-363	
HNHED04	4987	577303	1-236	15-250	
HNHED06	4988	918651	1-272	15-286	
HNHED21	4989	496484	1-517	15-531	
HNHES05	4990	932092	1-312	15-326	
HNHES06	4991	859833	1-278	15-292	
HNHES07	4992	953443	1-381	15-395	
HNHES11	4993	967128	1-383	15-397	
HNHES23	4994	675946	1-475	15-489	
HNHES33	4995	576497	1-387	15-401	
HNHES56	4996	881504	1-381	15-395	
HNHES61	4997	973297	1-493	15-507	
					AA215634, AA825300, AA491266, AW136478, and AA282054.
					AW249240, and AC006261.
					AA093346, AI261785, AA714323, AC005498, AP000457, AL049641, AC005064, AL109764, AL049710, AC000119, AL049565, AC005019, AC004454, AL050401, AL049834, U66059, AC004842, AL035695, AC004741, AF101874, AC004908, AL132777, AL133312, AL049778, Z71182, AL135879, AL121790, AC007239, AL023806, AC004948, AL031663, AC004949, Z70227, AC005873, AB020861, AL021451, AC005199, AL031114, U01882, AC007444, and AC005502.
					AI011414, AI011415, X87904, and AB007867.
HNHES81	4998	777979	1-370	15-384	
HNHET11	4999	967127	1-388	15-402	
HNHET17	5000	576746	1-430	15-444	
HNHET24	5001	860006	1-368	15-382	
HNHET25	5002	953410	1-373	15-387	
HNHET57	5003	577360	1-445	15-459	
HNHED50	5004	724449	1-342	15-356	
					TS7118, AC004966, AC007544, and AC007253.
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HNHEU60	5005	576387	1 - 328	15 - 342	
HNHEU71	5006	574396	1 - 278	15 - 292	
HNHEU25	5007	577111	1 - 123	15 - 137	
HNHEV44	5008	716661	1 - 690	15 - 704	
HNHEV46	5009	577337	1 - 181	15 - 195	
HNHEV49	5010	575777	1 - 303	15 - 317	
HNHEV03	5011	924475	1 - 483	15 - 497	
HNHEW14	5012	658506	1 - 477	15 - 491	
HNHEW19	5013	953446	1 - 359	15 - 373	
HNHEW21	5014	670987	1 - 243	15 - 257	
HNHEW75	5015	576361	1 - 402	15 - 416	
HNHEW76	5016	770081	1 - 391	15 - 405	
T79157, A1696334, H89746, AL133216, AF020782, AC004883, and Z96681.					
AL022098.					
TS9662, TS9795, and AF147377.					



HNHEW95	5017	953566	1 - 382	15 - 396	AC005624.
HNHEX12	5018	970764	1 - 362	15 - 376	
HNHEX40	5019	711225	1 - 412	15 - 426	
HNHEX34	5020	575783	1 - 423	15 - 437	AI339302, AA534221, AA678404, N57939, AV007294, AI291560, AC005206, AC005667, AC004382, AC000353, AF030453, AC005088, AC004770, AC004835, AC007430, AL132777, AC03685, AL133355, AC005620, AC003012, AC022517, AC004598, AC005006, AC006449, AC003109, AL139054, AC004841, AC003684, AL022162, AL035450, AC004012, AC004985, AL035079, AC004447, AC005300, AC006126, AF196779, AL133500, AC002349, AC004228, AC002480, AL079342, AC004813, AC006101, AL049781, Z84476, AF139813, AL050341, AC004884, and AC0005790.
HNHEX66	5021	860036	1 - 410	15 - 424	AL049646, Z55781, and Z54485.
HNHEX77	5022	860037	1 - 418	15 - 432	
HNHEX39	5023	959668	1 - 401	15 - 415	
HNHEX63	5024	575741	1 - 384	15 - 398	AL047308.
HNHEX93	5025	575745	1 - 290	15 - 304	Z82217, U95626, AC007751, AC005863, AC002288, and AC008069.
HNHEZ07	5026	953438	1 - 141	15 - 155	
HNHEZ18	5027	575788	1 - 154	15 - 168	
HNHEZ19	5028	887442	1 - 293	15 - 307	AL119623, and AB020628.
HNHEFA05	5029	860033	1 - 506	15 - 520	
HNHEFA11	5030	967126	1 - 397	15 - 411	
HNHEFA35	5031	577302	1 - 398	15 - 412	
HNHEFA39	5032	576394	1 - 400	15 - 414	AW083544.
HNHEFB09	5033	575786	1 - 422	15 - 436	AI612930, AA365413, AA224238, AA531079, AA074342, AA077737, AA679532, AA582463, N25272, AL042927, AA484658, AA847702, H02485, AA779454, AW265090, AL682665, AW129526, AL061313, AC006285, AC016025, L78810, M63391, AC004000, AC018633, M87925, AL035587, AC005778, AC005060, AC005523, AC003695, AC002091, AC004635, AC007270, AC004981, AC005527, AL022336, AL139054, AC007637, AC004771, AC000072, AC006241, AL132777, AC007666, AC006387, AC006380, AF010400, AC005829, AL031662, AC004231, AP000065, AC003682, AC008125, AL080317, AC003025, AL021397, AC007676, AC005363, Z97054, AL096712, AF139813, AC004257, U89337, AC004643, U67220, Y18000, AL031431, L77569, AL049776, AC004228, AC007227, AL133448, AC005901, AL035071, AC006130, Z83846, AC005592, AB016195, AC004967, AC007787, AC004983, AC007688, AC001228, AP000228, AC003029, AC003684, AC012637, Z73420, AC019014, AC004760, AP000140, AC002464, AC005529, AC005949, AC002303, AC005220, AC008171, AC007314, AC005668, AC004150, AL020995, AC005520, AC005086, AL096561, AC006441, AC002365, AC002504, AC005274,

HNHFB19	5034	668713	1 - 274	15 - 288	AP001053, AC006120, AL049565, AC007263, AC004821, AL049830, Z98752, AP000088, AC004067, AC005620, AL023807, AC000070, AC005051, AL096701, AC005164, AC006476, AL109758, AC005291, AC004363, AC007172, AL109628, AC003043, AC003013, AC006530, AC005207, AC004814, AC002477, AC006333, AL009743, AL009179, AC005369, AC006277, AP000172, AP000057, AP000125, AL0035460, Z85995, AC004230, AL117337, AC005755, AC007649, AC009516, U29895, AL121653, and AC006125.
HNHFB27	5035	576865	1 - 415	15 - 429	AC002073.
HNHFB32	5036	836006	1 - 432	15 - 446	AC007845, AC016025, and AC016026.
HNHFB39	5037	575740	1 - 408	15 - 422	A1082315.
HNHFB53	5038	728265	1 - 393	15 - 407	
HNHFC34	5039	860027	1 - 376	15 - 390	
HNHFC43	5040	583660	1 - 494	15 - 508	
HNHFC60	5041	576438	1 - 522	15 - 536	L47334, AC004944, U95739, and AL118509.
HNHFC61	5042	577185	1 - 380	15 - 394	
HNHFC67	5043	576385	1 - 348	15 - 362	
HNHFC78	5044	576435	1 - 376	15 - 390	A1525653, A1525669, and A1557222.
HNHFC92	5045	577240	1 - 326	15 - 340	Y18000, AC004882, and AC005529.
HNHFD46	5046	576796	1 - 370	15 - 384	AC004556.
HNHFD88	5047	506354	1 - 345	15 - 359	AF002994.
HNHFE07	5048	953585	1 - 68	15 - 82	
HNHFE40	5049	576431	1 - 404	15 - 418	
HNHFE69	5050	577244	1 - 329	15 - 343	
HNHFE08	5051	860229	1 - 685	15 - 699	AA506952, TS2745, A1280574, AA832016, A1270177, AA831801, H81732, AA350886, M78131, P23264, A1554725, A1436330, AA520105, AA602906, A1249365, AA633424, A1568659, AW439703, N99245, AA054639, A1928890, AA730035, AW020150, AW151541, A1521525, A1362694, AA635433, A1298079, A1653525, AW006088, AW088130, AA809153, A1611987, AL046416, AW304580, AL040374, AW238712, A1056537, P07564, AA553394, AA622801, A1753672, AL040816, R70884, A1345497, AA932407, AA015948, A1610439, AA525331, AA650447, A1871913, R70883, AA525293, AA365980, AA508036, A1918419, AA811954, A1251576, AW407632, AA937809, AA351808, A1118925, A1754567, A1619889, AW102811, A1754105, A1358712, A1755214, A1743968, A1096874, A1686563, A1040273, A1306232, F00688, AA838091, AA806804, AW274191, A1390972, A1990666, AL041375, R87135, A1863279, A1635440, AA282951, A1619337, A1661090, F50310, A1479068, A16189113, AA378474, AA533054, AA834764, AA057522, AA594719, AA528744, AA525522, A1207422, A1421950, AL079734, AA454504, AL079339, Z82244, AC005338, AC020663, AL117355, AF091512.

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HNNHF21	5052	625613	1 - 326	15 - 340
HNNHF29	5053	576412	1 - 268	15 - 282
HNNHF56	5054	576432	1 - 434	15 - 448
HNNHFG07	5055	953569	1 - 386	15 - 400
HNNHFG11	5056	967255	1 - 316	15 - 330
HNNHFG37	5057	658459	1 - 393	15 - 407
HNNHFG94	5058	720292	1 - 389	15 - 403

HNHF121	5039	575785	1 - 576	15 - 590	N28488.
HNHF156	5060	575784	1 - 243	15 - 257	
HNHF178	5061	773610	1 - 386	15 - 400	
HNHF169	5062	575747	1 - 128	15 - 142	AC007226, U95743, AC006363, and AJ1022345.
HNHF188	5063	575751	1 - 343	15 - 357	
HNHF195	5064	577328	1 - 434	15 - 448	
HNHF145	5065	720757	1 - 439	15 - 453	
HNHF167	5066	699523	1 - 444	15 - 458	AA293828, and H66294.
HNHF137	5067	576386	1 - 389	15 - 403	
HNHF177	5068	970770	1 - 440	15 - 454	
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HNHF148	5069	664588	1 - 294	15 - 308	A1937551, A19010317, A1907752, D29748, AJ130757, S67971, and AJ130755.
HNHF182	5070	576428	1 - 386	15 - 400	AL021528.
HNHF161	5071	916787	1 - 290	15 - 304	AL096577.
HNHF162	5072	577331	1 - 346	15 - 360	
HNHF130	5073	691083	1 - 398	15 - 412	
HNHF152	5074	727258	1 - 216	15 - 230	
HNHF195	5075	761672	1 - 316	15 - 330	
HNHF045	5076	576408	1 - 351	15 - 365	
HNHF048	5077	707311	1 - 624	15 - 638	H05570, and AC005146.
HNHF009	5078	860013	1 - 299	15 - 313	AL031590.
HNHF110	5079	964849	1 - 440	15 - 454	
HNHF001	5080	916773	1 - 338	15 - 352	
HNHF109	5081	418108	1 - 149	15 - 163	

HNHFQ30	5082	692807	1 - 272	15 - 286	
HNHFQ75	5083	766595	1 - 343	15 - 357	
HNHFQ88	5084	576398	1 - 436	15 - 450	
HNHFQ92	5085	576400	1 - 139	15 - 153	
HNHFR12	5086	860003	1 - 303	15 - 317	
HNHFR22	5087	964716	1 - 430	15 - 444	
HNHFR24	5088	577330	1 - 322	15 - 336	
HNHFR67	5089	751787	1 - 338	15 - 352	
HNHFS03	5090	924610	1 - 511	15 - 525	
HNHFS79	5091	734798	1 - 416	15 - 430	
HNHFL09	5092	625726	1 - 433	15 - 447	
HNHFL35	5093	707335	1 - 298	15 - 312	
HNHFL435	5094	920844	1 - 432	15 - 446	
HNHFL57	5095	860002	1 - 435	15 - 449	
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				AA045947, AA367403, AC005702, AC005562, and AC003958.
				AA075754, AA618286, AA295899, AA295893, AA774098, AA354695, AB859744, AA483141, AW327555, AA633892, AA340226, AA569448, AA834799, AF034176, AA376558, AF732911, AA171730, AA225634, AA825954, AA452323, AA730795, AA496268, T06805, F16409.

				W96277, AA340153, C16638, AA020873, T47138, A4831913, AC005089, AC005610, AL022320, AC006026, Z92546, A003147, AP001053, AC004209, AP005052, AL133448, AF019413, AP00558, AC005331, AC002395, AP00353, AP000557, AL049709, AC009247, AC009516, AC001228, AC004491, AC005253, AC007421, AC005015, AP000031, AC004492, AC005763, AF134726, AL035420, U91326, U95742, AC009399, AC005844, AC004522, AC007216, AL031602, AC006367, AC006511, AC002369, AC005071, AC004813, AC006536, AC006254, AC006539, AL021391, AC006101, AD000092, AC007676, AL031846, AC006126, Z84772, AL031285, AC002492, Z79997, AL034417, AC006432, AC005585, AC004650, AP005710, Z98946, AC004552, AC005280, AC006012, AC005379, AB023048, AF064861, AP005111, AC005755, AL0078611, AC007262, AC005291, AL031120, AL034553, AC004253, US8675, AL049692, Z83987, AC002425, AL035667, AC004913, AC005566, Z93241, AC007151, AL049539, AC005768, AL096773, AC004242, AC005037, AC005783, AC006950, AC008115, AC004771, AC005519, AC002544, AC002997, AL031311, AF031078, AF031076, AF030876, AL021578, AF111163, AC005696, AC005778, AC005099, AC002073, AC007541, AF045555, AL035639, AC005736, AL049745, AC003006, Z99716, AC004021, AL246003, Z83838, Z97206, AC007551, AC007559, Y18000, AC016830, AC007066, AC006948, AL049775, AF222686, AC004526, AC004559, AL135960, AJ131016, AC007486, AC004020, Z84469, AC006538, Z84480, AC008041, AL035089, AC007688, AC004882, AL049636, AL109628, AC004741, AL096791, AC003378, Z83843, AL049839, AC005808, AC005839, AC005529, AC006023, AL035638, AP000213, AC004878, U66722, AC005081, AC004876, M89651, AC007685, Z82244, AC005320, AL096712, U91322, AL031848, AP000135, AC007051, AL035086, AC004859, AL049760, AC005859, AC002984, AC006120, Z93023, Z92542, AC007308, AC002435, AC004399, AF106779, AL109623, AC007207, AC004106, AL031577, AC004842, AC004765, AC004963, AC005412, AC009464, AL031681, AL008719, AF196971, AC007537, AC004662, AC005730, AC007387, AL031447, Z97987, AL049563, AL021154, L78833, AC007546, AL117355, AL035681, AC003956, AC005971, AC004887, AJ011930, AL035072, AL139054, AP000513, AP000134, AP000212, X96421, AC004531, AC007052, AL031587, AL009181, Z95115, AC007384, AF165926, AC007227, AC004596, AC002045, AL031588, Z82198, AC006285, U91321, AC006946, AP000114, AC004167, AL031778, AL080243, U95743, AC004263, AC009336, AC004996, AC004883, and AL049557.
HNHFV29	5103	663912	1 - 410	15 - 424
HNHFV22	5104	674638	1 - 189	15 - 203
HNHFV35	5105	668656	1 - 344	15 - 358
HNHFV36	5106	716628	1 - 402	15 - 416
HNHFV68	5107	753045	1 - 96	15 - 110
HNHFV70	5108	756459	1 - 381	15 - 395
HNHFV89	5109	712347	1 - 413	15 - 427

HNHFY21	5110	670946	1 - 408	15 - 422	
HNHFY95	5111	734764	1 - 363	15 - 377	
HNHGA24	5112	967093	1 - 433	15 - 447	
HNHGA33	5113	702461	1 - 189	15 - 203	
HNHGA46	5114	719073	1 - 359	15 - 373	
AF095901, AC005971, and AC003006.					
AA579437, R98945, A1168274, A1092694, T68597, AW161893, AW438907, AA618172, A1085078, AA632695, H27102, AC007676, U91326, Z49154, AC005516, AP000066, Z98941, AL031685, AC004056, AC006449, AL031680, AC005921, Z84484, AC007559, M63796, AC002400, AL002476, AC002302, AF024533, AC006965, AC005940, AC005479, AL121655, AL035495, AP000349, AC005102, AL050337, AC003962, L44140, AC005156, AL139054, AC003689, AP001549, AC006544, AC005332, AC002565, AC006581, AL035086, AC005785, AC006076, AL031681, AL049709, AC006572, AC007637, AC005523, AC004584, AL009031, and AB0017567					
HNHGB83	5115	781205	1 - 325	15 - 339	
AA604326, AA483223, AA513850, AA486580, AA533036, AA548511, F25695, AA824655, AA127636, AA641199, AA3568778, AL044438, AA601355, AA670468, AA481050, AA397572, AA486885, AA824654, AA368679, AA678443, M77868, AA081909, AA488249, NZ0967, AA346575, AA623002, AA377906, AA973803, AA446657, NZ2533, AA347114, AA906889, AA649722, AA720691, H86097, AA669840, AA858197, AA357552, AA503473, AA928904, TS3128, AA341336, AA643469, AA490183, W96048, AA078691, AA653964, AA805860, T28708, AA740921, AA458736, AA702745, AA678436, AA059472, A1002796, AA678772, AA644538, AA810370, F35659, AA158301, AA788883, AA604854, AL134347, F09736, AA204718, R32415, AA319830, AA610420, AA602528, AA304977, R84296, AA830996, NZ0219, AA704643, AA325597, AA480790, AA235466, AA158328, AA330380, AA525151, T94817, AA825299, AA833792, AA053551, AA834755, AA678499, AA633094, AA552843, H96850, T16056, AA484153, AA664135, TS5236, AA132914, AA702293, AA437161, AA630606, AA604107, AA629571, AA280632, AL134267, R97934, R84309, AA812433, AA630925, D57369, R65889, AA524809, AA526757, R92288, AA715263, R84303, H02877, W16381, AA603156, AA439873, AL648558, AA826793, AA347170, H11124, AA287640, AA608595, AA994578, AA639248, AA584749, H02135, N69316, T49241, AA434388, H79151, H80306, AL037050, AW069807, AA483780, AA143490, T67750, AA053635, AA172191, AA774184, AL190895, AA632548, T15897, AA515909, AA605032, AL167643, VW390062, AA494025, AA908857, AA524838, AA654761, AA846829, AB980096, AA405493, AA557854, AL273528, AA569167, AL251250, AL284881, AA521335, AA574110, AC0066312, AF003529, AC002384, AF029308, AC004690, Z95124, Z95331, AF227510, AL031965, AC003973, AL049837, AC006560, AC006548, AF130343, AC006511, AL136520, AC004075, AC003003, AL121823, AL031054, Z97206, AC004968, AC005191, AC005181, AC007372, Z68870, AF000507, AC007161, AL021083, AP000086, AC005690, AC008069, AC004006, Z83841, AC004614, AC005036, AB020868, AL132323, AL049562, AL09654, AC009286, AF070718, AP000166, AL121871,					



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HNHGB96	5116	784362	1 - 406	15 - 420	
HNHGC13	5117	927065	1 - 344	15 - 358	
HNHGC35	5118	707337	1 - 310	15 - 324	AI804902, AC006117, AC007421, and AF051976.
HNHGC41	5119	711654	1 - 259	15 - 273	HA0460, T87387, T99479, T79930, T98889, R45850, and H40461.
HNHGC62	5120	733745	1 - 641	15 - 655	AT798767, AT762354, AA960878, AA994187, AL150216, AL203673, AW300455, AL669778, AI638227, AL629021, AI032379, AW206145, AL126900, AI652606, AI949596, AL200754, AI652758, AI365965, AA400904, AA975880, AA935607, AA628104, AA913740, AA682231, AA442250, and AA970252.
HNHGD07	5121	953416	1 - 412	15 - 426	
HNHGD14	5122	920149	1 - 425	15 - 439	FE1867, AL250552, AI251034, AL254770, AL284543, AI054090, AL251284, AL251203, AL224626, AL246061, AI090334, AL251241, AW303098, AA502098, AL312533, AL135605, AW339422, AT798041, AW749541, AA491814, T99717, AA356310, T55707, AT746959, AA492114, AT249886, AW747480, AI358008, AC004778, AC007201, AL096791, Z93930, Z98200, AL009181, Z82208, AC005778, AL031848, AL109798, AL078476, AC006130, AC005841, AC007546, AL035681, AL049766, AL034379, AC005387, AC005776, AC007100, AC005837,
HNHGD50	5123	667930	1 - 341	15 - 355	

					AC007225, AF196779, AC005399, AL031666, AC003101, AL022313, AC004815, AC005231, AC006312, AC003043, AC004526, AC005632, AC004797, AC020663, AC005332, AC005796, AC004019, AC002073, AL022311, AC005338, AL080243, AL022326, AC006948, AL0246003, AC007227, AC005180, U34879, AC005223, AP000555, AC006208, AC007878, AC005899, AC005207, AC005529, AC003104, Z94056, AL022336, AC007308, AC003042, AL121658, AC007637, AC002470, AC006011, AL031735, AC005562, AL096701, AL132712, AC0059509, AC004887, AL080242, AC002492, AC004596, AC0018633, AC006536, AC007172, AC002117, AD000812, AL021977, AC001584, AC002543, AC003098, AC004150, AC005786, AP000502, AD000092, AP030876, AC005527, AL034549, AC007774, AC005175, AL022240, AC006449, AC007216, AC002425, Z99716, AC005291, AC005157, AC005288, AP000117, U7924, AP000357, AC002429, AC005911, AC005913, AF134726, Z49235, AP000117, U7924, AP000357, AC005081, AC005736, AC003957, AC002301, AL022322, AL132777, AL133448, AL049776, AC004560, AL021068, AC006973, AL034375, AL022163, AL031311, AC005703, AL049829, AC006021, AP001067, AP000050, AP047825, AP000313, AC004854, AL008582, AC005512, AL023553, AP000952, AC004765, Z84479, Z83840, AL049692, AC000134, AC000026, AC006511, AC004678, AC005003, AC005071, AL021707, AC003688, AC007376, D16561, AJ238413, AF111169, AL022238, AC004771, AC003108, AC002565, AL109827, AC005620, AC009247, Z93023, U63721, AC004216, Y18000, AC016025, AC004263, AC005193, AC016026, AC000052, AP000704, AC005602, AC002369, AC007792, AC006390, AC005089, AL0050333, AC004447, AL033419, AP002991, AC002059, AL022237, AP000193, Z95113, AC005215, AL003037, AF205368, Z94161, AC006285, AC005829, AC006026, AC004383, Z92542, AC004814, AC007687, AC002985, AC004812, Z98051, AC009516, AC004383, Z92542, AL031432, Z95115, AC005222, Z98044, AC007226, Z83987, AL109952, AC004878, AC005218, AC006441, AL096775, Z69666, AP000049, AC004254, AC004400, AC006111, AL121655, AC002126, AF126403, AF129756, AC002044, U91325, Y10196, AC004805, and U95742, AC005043, and AL035417.
HNHGD51	5124	934632	1 - 392	15 - 406	
HNHGD68	5125	733053	1 - 393	15 - 407	
HNHGD84	5126	671077	1 - 414	15 - 428	AC005242.
HNHGE09	5127	939727	1 - 633	15 - 647	T03269, D58283, D80193, D59927, D80166, D80195, D51423, D59619, D80210, D51799, D80391, D80240, D80253, D80043, D80227, D59839, D80212, D80196, D80188, D80219, D80038, D80269, C14429, D59889, D81030, D80366, D59502, D57483, D80022, D59275, D80045, D59610, AW178893, D80378, D50979, D50995, D80024, D59787, D80241, D51097, C14014, C75259, D80164, C14331, D80134, AP005856, D59467, AW177440, C14389, C15076, AW179328, AW178775, AA305409, AW378532, D51060, AW352158, AW177501, AW177511, AW352117, D80949, D80168, AW178762, D58253, D51079, D51022, AW176467, AW375405, AW360811, AA305578, AW377671, AW366296, D80251, AW360844, AW360817, AW360834, D81026, AW375406, AW278534, D80248, AW179332, AW377672, AW179023, AW178905,

					AA514188, AW179220, AW352172, AW352171, D80522, AW377676, AW352170, AW177731, AW178907, AW179019, AW179024, AA514186, D80133, AW178906, AW177505, AW179020, AW178909, AW177456, AW179329, AW178980, AW177733, AW378528, AW178908, AW178754, AW179018, C05695, D80132, AW179004, D80268, AW178914, AW177723, AW352174, AW178774, D80439, D80247, T48593, AW367967, AW178983, AW177723, AW352174, AA033512, D51103, AW378533, D80157, AW367950, AW178986, D80314, A1555850, C06015, D45260, C14975, A1525913, A1525923, A62298, A62300, A132110, A84916, A67220, D89785, A78862, X67155, A25909, AR025207, D34614, D26022, D88547, Y17188, X82626, AR018138, AB012117, A85396, AR066482, Y12774, A44171, A85477, I19525, A86792, AF058696, X93549, AR008278, AB028859, AF135125, U87250, A94995, AB008443, I50126, I50132, I50128, I50133, D88507, AR066488, AB064240, A82595, AR016514, D80010, AR060138, A45456, I18367, A26615, AR052274, Y09669, AR060385, AB033111, AB002449, AR066487, A43192, A43190, AR038669, A10438, AR066490, D13509, AR060133, Y17187, AR008408, A63261, H87247, A70867, Z32749, AB023656, AR062872, U79457, AR016691, AR016690, U46128, X93535, and AR008382.
HNHGE27	5128	683432	1 - 359	15 - 373	AA488743, AA308092, AA676628, AL031311, AP000347, AP000346, AC005210, AC005839, AL031681, AC007227, AC005105, AC004139, AL109759, U85105, AE000658, AL022302, Z95116, AL031671, AL034402, AC004010, AC005225, AC005519, AL031680, AL109963, AL021069, AC004920, AC003024, Z96811, and AC002544.
HNHGE43	5129	715304	1 - 315	15 - 329	
HNHGE64	5130	746605	1 - 303	15 - 317	
HNHGE14	5131	835984	1 - 419	15 - 433	
HNHGE21	5132	670956	1 - 399	15 - 413	
HNHGE37	5133	708708	1 - 520	15 - 534	
HNHGE45	5134	859852	1 - 372	15 - 386	
HNHGE46	5135	705128	1 - 411	15 - 425	W40172, AA129812, AA382562, AA057128, N44954, W93959, W96112, W65434, AA321463, R91613, AA010986, AA311729, AA456863, AA355485, AA047510, AA133759, T771131, T97680, W44481, Z60894, and AF191020.
HNHGE85	5136	761811	1 - 356	15 - 370	AA745297, AL107744, AW169038, AL170805, AL037777, AA528574, AA328503, R08192, AW304536, AW338042, H01243, AL538236, R99533, H60827, AA630122, W03330, AA434364, AC005089, AL049591, AL021391, AC005881, AC004129, AP000555, U52112, Z93241, AL021707, AF064861, AC006080, AC003025, AF139813, AC005666, AC006277, AC005048, AF165926, AC003101, AC007371, AC005952, AL031668, AC005389, AL031276, AC005376, AC005826, AC006379, AC006948, AC005932, AP000243, AP000126, AP000204, AF047825, AC006241, AC005071, AC005736, AC005546, AF051769, AC007073, AP000602, AL035423, AL031602, AC003982, AL133312, AL049569, L44140, AC007934, AF024534, AP000279, AL031672, U95626, AL078584, AL022320, AC005624, AP00106, AP000038.

				AL008718, 283826, AL035071, AC004996, Z83844, AC004595, AC004832, AC004017, AC004814, AC005225, AC005971, AC005786, Y16789, AP000689, AC002115, AL0096817, AC005049, AC004084, AC009721, AC007327, AF196969, AC005519, AC004859, AP000557, MS5987, AC007283, AC000533, AL022326, Z93023, AC005562, AC006275, AP000302, AB023049, AL031427, AC009516, AC004841, AP000045, AL035659, AL132712, AL034419, AL022237, X95887, AC005280, Z92845, AC007421, AC002288, AC002072, AC005482, AL031295, AC007792, AP000512, Z82248, AL109758, AC002288, AC002072, AC005482, AP000501, AP000556, AC004782, AC005399, AL035420, U91318, Z98004, AL133448, AC005841, Z97630, AL049760, Y14768, AC004849, AL009172, AL035405, AC005274, AL035587, Z93022, Z98304, AP000050, AC005255, AC006163, AC006141, AP000305, U95740, AL031281, AC004890, and AL035588.
HNHGF90	5137	730957	1 - 392	15 - 406
HNHGF91	5138	750389	1 - 418	15 - 432
HNHGG06	5139	935530	1 - 392	15 - 406
HNHGG73	5140	764446	1 - 253	15 - 267
HNHGG76	5141	746607	1 - 246	15 - 260
				R02639, and R02523.
				AL648538, AW236342, AL824562, AA747472, AL697208, AL041706, H55914, AA515435, AA484187, AA649642, AA318652, AA515224, AW440976, AL358571, AL205126, AA483034, H55891, AW077817, AL281697, AL379719, AA017322, AA548137, AA441788, AL064729, F23279, AL216799, AL357551, AL544426, AL251002, W07122, AL291124, AA317170, AL053672, AW079241, AL039958, AL921296, AA514819, AL291268, F57109, AW265393, AL284640, AL537030, AA557686, AL473943, AW303876, AA663482, AL281881, F33121, AW274349, AA084070, AA632690, F36273, AL334443, AL471481, AA745410, AL937850, T63104, AA491762, AA470985, AA483234, AL564185, AW029526, AL133164, AL2929531, AL364809, AA503258, AW303196, AW301350, AW338086, F18320, AL251021, AA664148, AW088058, AL252554, AL041733, AL749284, AW162049, AA325699, T06556, AA745582, AA350859, AL137954, AL091495, AL287651, AL079812, AW166815, AW028403, AL821279, AL446464, AW148792, AL079843, AW406162, AA664535, AL343695, AW419262, AA595782, AA825557, R91994, AL351698, AL499938, T08638, AW402099, AA365302, AL219406, T03772, AA533036, N75702, AL358813, AL567674, AA605274, AA252763, AL150152, AL357288, AL570212, AL2949835, AW020992, AL312149, AL439210, AL613345, AL713815, T40077, AL434311, AW270270, AW406447, AL101770, AA470534, AW168342, AL177061, AL467919, AW104813, AL888518, AA657741, AL161095, AL890923, AW162489, AA680211, AL281903, AA679872, AL148277, AL279165, AL628288, AA521277, AL384874, AW079792, AW022379, AA652037, AL539563, AL459360, AL962050, AA347927, Z99716, AL049830, AC005323, AL031388, AC005696, AC007363, AC012627, Z98884, AC007036, AC004805, AC000004, Z98948, AP000054, AL110502, AC000666, AC004067, AL034545, AF064857, AP000548, AF044083, AL035411, AC005541, AC005844, AC003668, AC006501, AC006543, AL031681, AC005082, AC002543,

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HNHGH89	5142	772213	1 - 343	15 - 357	
HNHGH93	5143	702135	1 - 565	15 - 579	
HNHGH95	5144	760386	1 - 399	15 - 413	AC004894.
HNHGH02	5145	920147	1 - 520	15 - 534	
HNHGH20	5146	959499	1 - 391	15 - 405	
HNHGH42	5147	713036	1 - 418	15 - 432	AA488395, AL580652, AW269488, H88666, AA491814, AA177061, AL499938, AL184226, AL276100, AP216490, AA381903, AW406659, AL589230, AW088202, AA448231, AA452563, AW238278, AW103758, AW261871, AW406162, AL119691, AB87483, AA503238, AA469451, A1859251, F29989, AW276827, AL046409, AL471543, F17555, AL889923, AL053790, AL1567674, AL499181, AA503284, AL679045, AA493708, AL138265, AL345518, AA654979, AL471481.

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HNHGJ05	5148	707336	1 - 422	15 - 436
HNHGJ79	5149	775218	1 - 307	15 - 321
HNHGJ81	5150	576279	1 - 418	15 - 432
HNHGJ03	5151	968076	1 - 309	15 - 323
HNHGJ09	5152	625624	1 - 394	15 - 408
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AL022341, AA724689, AL698833, AA433894, AA314522, D25249, F29184, AA296881, AA326270, AT791913, AT792133, AL821714, AL611569, AL611598, AA663201, AL340641, AA501649, AL668679, AT734264, AA039512, AA063546, AA515728, T86545, AV407371, AL335995, AL821785, AA838190, AV304580, AA547947, AV029515, AA933776, AA039511, BA4623, AL543388, AL700000, R57956, AL133566, AL420028, AA595409, AA169247, AA527838, AC006126, AC005081, AP000553, Z84469, AC005261, AC006538, AP000102, AC002316, AC004799, AC005409, AC005736, AL031584, AC006511, AC004812, AF045555, AC002727, AL096701, AC003101, AL133245, AC007364, AB023049, AC004386, Z85986, AC000353, AF109907, U91326, AC005004, AC004491, AC007011, AF196779, AC010205, Z95152, AC005071, AP000512, AC016026, AC005046, AC004876, AC004813, AL109939, Z84483, AL022312, U07563, AC004381, AC002369, AL022315, AC007842, AC004966, AC007536, AC005620, AC006084, AC006011, AC002037, AL049830, AC004253, AC005829, AL022165, AL008721, AC004150, AL133485, AC003007, AC002470, AC002425, AL031311, AL121655, AL008633, AC005037, AP000104, AL023807, AL008726, AC007707, AL021707, AL031594, AC002059, AC005800, AC005899, Z83840, AC004890, AL136295, Z95115, AC006960, AC005488, AP000558, AC005780, AL009179, AF053356, AC004031, AC004526, Z74739, AL003147, AC006088, AB044907, AC005057, AL135744, AC003037, AL049839, AC004953, AL016025, AL049643, AC006449, AC008723, AP000353, AC005102, AC006071, AL022313, AC002347, Z93930, AC002544, AP000251, AC004030, AF165926, AC004765, AC006480, AP000786, AP000030, AP000211, AP000133, AL021579, AF047825, AC007225, AL133353, AP000690, AC005523, AC005598, AC005722, AC002073, Z98051, AF064861, Z84718, AC002301, AC005231, AC002400, AL122020, U47924, AC006210, AC004854, AL008582, AL049795, Z82215, AL049757, AC004838, AC004382, AC004531, AC009516, AC007057, AL117328, AC006468, AF196970, L44140, Z97989, U85195, AC004019, AC007731, AC004821,					
HNHGJ20	5153	668916	1 - 384		
HNHGJ28	5154	686733	1 - 309		



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HNHGR35	5176	698501	1 - 374	15 - 388	
HNHGR43	5177	918711	1 - 330	15 - 344	
HNHGS34	5178	706671	1 - 422	15 - 436	Z68885, and AL117391.
HNHGT37	5179	708706	1 - 276	15 - 290	
HNHGT51	5180	859962	1 - 354	15 - 368	
HNHGT64	5181	725710	1 - 346	15 - 360	
HNHGT74	5182	705602	1 - 433	15 - 447	
HNHGU19	5183	668693	1 - 407	15 - 421	
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HNHGU41	5184	791822	1 - 487	15 - 501	
HNHGU44	5185	716634	1 - 443	15 - 457	
HNHGU84	5186	783041	1 - 434	15 - 58	
HNHGU89	5187	761837	1 - 434	15 - 448	
HNHGV18	5188	666473	1 - 391	15 - 405	
HNHGV22	5189	674653	1 - 345	15 - 359	
HNHGV29	5190	421819	1 - 310	15 - 324	AL020994.
HNHGV45	5191	754053	1 - 414	15 - 428	
HNHGV91	5192	706695	1 - 388	15 - 402	AL022068.

HNHGX33	5193	496224	1 - 315	15 - 379	AP000271, AP000104, and AF042089.
HNHGX40	5194	687120	1 - 344	15 - 358	
HNHGX41	5195	711657	1 - 650	15 - 664	
HNHGX52	5196	727175	1 - 425	15 - 439	
HNHGX55	5197	683523	1 - 296	15 - 310	
HNHGX83	5198	781196	1 - 550	15 - 564	AC006079.
HNHGY13	5199	657253	1 - 397	15 - 411	AL031732.
HNHGY17	5200	663921	1 - 405	15 - 419	
HNHGY18	5201	859951	1 - 409	15 - 423	
HNHGY19	5202	835531	1 - 422	15 - 436	
HNHGY26	5203	859949	1 - 438	15 - 452	
HNHGY29	5204	690666	1 - 429	15 - 443	L34981, Z68275, AL117391, and L33995.
HNHGY42	5205	713797	1 - 409	15 - 423	
HNHGY47	5206	720360	1 - 400	15 - 414	T02826.
HNHGY79	5207	775209	1 - 405	15 - 419	
HNHGY86	5208	785516	1 - 238	15 - 252	
HNHGY91	5209	840129	1 - 419	15 - 433	
HNHGX26	5210	708131	1 - 71	15 - 85	
HNHGX63	5211	742594	1 - 522	15 - 536	
HNHHA21	5212	496227	1 - 374	15 - 388	
HNHHA32	5213	669915	1 - 328	15 - 342	AC004819.
HNHHA37	5214	708709	1 - 188	15 - 202	
HNHHA68	5215	753047	1 - 613	15 - 627	
HNHHA91	5216	790198	1 - 271	15 - 285	
HNHHA11	5217	964993	1 - 147	15 - 161	
HNHHA12	5218	970719	1 - 363	15 - 377	AL136297.
HNHHA24	5219	677224	1 - 351	15 - 365	AW088875, AW090733, AW089149, AD241940, A1364268, R41807, H06383, AW016452, AA598689, A1863108, AA599060, A1091148, A1693507, A1424991, and Z38240.
HNHHA64	5220	702697	1 - 766	15 - 780	N90568, A1554312, AP000365, and AP000548.
HNHHA12	5221	967088	1 - 290	15 - 304	
HNHHA17	5222	860117	1 - 318	15 - 332	
HNHHA29	5223	713800	1 - 359	15 - 373	AA663387, and AA679164.
HNHHA33	5224	699291	1 - 172	15 - 186	AL080239.
HNHHA36	5225	707340	1 - 218	15 - 232	
HNHHA46	5226	719068	1 - 240	15 - 254	
HNHHA58	5227	736069	1 - 227	15 - 241	

HNHHC83	5228	781197	1 - 425	15 - 439	
HNHHD35	5229	707338	1 - 423	15 - 437	
HNHHD61	5230	741857	1 - 405	15 - 419	
HNHHD67	5231	751663	1 - 305	15 - 319	
HNHHD82	5232	779893	1 - 419	15 - 433	
HNHHE07	5233	953408	1 - 364	15 - 378	
HNHHE48	5234	630223	1 - 307	15 - 321	
HNHHE63	5235	745100	1 - 281	15 - 295	
HNHHE80	5236	774041	1 - 301	15 - 315	
HNHHF01	5237	916546	1 - 306	15 - 320	AI.079342.
HNHHF33	5238	698502	1 - 249	15 - 263	
HNHHF51	5239	698490	1 - 384	15 - 398	
HNHHF56	5240	496204	1 - 349	15 - 363	AC006427.
HNHHF58	5241	859946	1 - 419	15 - 433	
HNHHF63	5242	745095	1 - 361	15 - 375	
HNHHF79	5243	775205	1 - 421	15 - 435	AI287766, AI124798, AA535216, AA715173, AA715075, AA829056, H50970, AI783911, AI560085, AI583532, AI754286, AA3350886, AA598731, AW438850, AW438662, AW302048, AA568314, AA828844, Z97054, AC005874, AF134471, U96629, AL024507, AC007056, AP000352, D87675, AL109798, AC009510, AL133500, AC009946, AC002302, AL022726, AL034549, AC005089, AL049569, U95742, AC005488, AP000511, AC007216, AC007199, AC005037, AC012085, AF001550, AF205588, AL008721, AP000108, AP000040, AC004554, AL034548, AP000030, AC008372, AP000116, AC003051, AC005899, AC006449, AP000089, AC010209, AC006312, AC004372, AL109758, AC007151, AC003665, AC004797, AC009516, AC016027, U63630, AC006079, AL031427, AC002492, AC004927, AF030453, AC016830, AC008072, AC005088, AC005377, Z83844, AC007637, AL035632, Z82194, AC007450, AC002477, AC006014, AC004983, AC004895, AC002463, AC003007, AC000134, Z85986, AC002476, AC005952, AC002352, AL139054, AF091512, AC004686, AL035420, AP000101, AL133245, AC007314, AC008394, AF053356, AF124731, AL132642, AC004675, AC004662, AC005871, U91321, AE000638, AC005695, AL031737, AP000115, AL022302, AC007263, AC006013, AC003687, AC005919, Z95114, AC005632, AC003036, AC007227, AP000694, AC004638, AP000952, AF195638, AF088219, AC004834, AL031281, AC007283, AC005484, AC007226, AC005224, AL031985, AC004966, AC006536, AC004765, AC002554, AP000085, AC005187, AC004796, AC005829, AC005921, AC004031, AC007198, AF067844, AC005972, AC006059, AC006006, AC004777, AC005911, AC004817, AC010206, AF106564, AC005288, AC005553, AC003668, AC020663, AC008044, AC004876, AL022400, AC005520, AC005969, AC006571, Z82215, AL021878, AF118808, AC006509, AJ003147, Z95152.

HNHHF96	5244	796402	1 - 315	15 - 329	AC005757, AC000041, AF111168, AL022311, AL050318, AC005291, AC000025, AC002400, AC005529, AC004828, AL121892, AP000704, AP000264, AL050308, AC002316, AC005527, AL109863, AC005250, AP000845, AL011930, AC000111, AL117339, AC003837, U95739, AL022318, AC004707, AC007566, AC004583, Z83822, AL031599, AC005482, AP000141, AC005231, AC004974, AP000035, AC005082, AL0049758, AL035089, AC007429, AL022156, AC004685, AL035587, AL050332, AF207550, AD000092, AC005086, AP000356, AL050307, AP000113, AC005048, AP000313, AC005752, AL035249, U47924, AC004672, AC005409, AC004051, AL117337, AC004622, AL031255, AF111169, AC006205, AC005186, AP000553, AC008719, AC002558, AC004000, AL031639, AC002312, AL031311, AL049851, AC004996, AC009399, AL020997, AL031685, AL135744, AL031228, AC007388, AL079342, AC006160, and AC006538.
HNHHG47	5245	720361	1 - 300	15 - 314	
HNHHG50	5246	724411	1 - 399	15 - 413	
HNHHG65	5247	750266	1 - 237	15 - 251	
HNHHH13	5248	657251	1 - 254	15 - 268	
HNHHH42	5249	713796	1 - 357	15 - 371	
HNHHH57	5250	734793	1 - 382	15 - 396	AL678676, AL821937, AL754286, W45073, H05449, C75526, AA287259, C75403, AF001549, AC006101, AC006111, AC005736, AL031220, AC004703, AC005399, AC006449, AC007731, Z95023, AC005500, AL022476, AC005576, AC004030, AL132777, U62293, U63721, AC004878, AC00615, AL024498, AC005180, AC007564, Z95114, AC005089, AC006130, AC003962, AL031228, AC005037, AC005189, AL049694, AL049830, AC005829, AL133500, AC006312, AC005288, Z93930, AC005537, AC004889, AC003012, U91318, AC004887, AC007384, AL022336, AL049776, AC004895, AL139054, AL121603, AP000133, AF111168, AL035086, AC005071, AL246003, AC006960, AL121658, AC004832, AF003528, AP000512, AF031076, AC004859, L44140, AC006241, AC006030, AF067844, AC005015, AL080243, AC005914, AC002316, AF118808, AL020997, AC005520, AL021391, AP000300, AF031078, AL121653, AC005562, AL031432, AF030876, AC005911, AL022721, AL024507, AP000694, AF064861, AC004491, AC005088, AL079342, AC005206, AP000355, AC005280, AF205588, AL031295, AC007363, AC005412, AC005094, AP000045, AP000113, AP000116, AC004216, AC004408, AC005667, AC005516, AL008718, AL023284, AC004638, AP000555, AC007057, AL049872, AL031905, AC005358, AC006417, AC006017, AC005971, AC006071, AC004098, AC004967, and AL133445.
HNHHI10	5251	964659	1 - 227	15 - 241	Z97205.
HNHHI28	5252	859941	1 - 415	15 - 429	AL109657.
HNHHI34	5253	706099	1 - 400	15 - 414	
HNHHI36	5254	708132	1 - 427	15 - 441	AL580362, AA676819, AA677954, AL831913, AL628458, and AL031123.

HNHH165	5255	750263	1 - 374	15 - 388	<p> AW238278, AL048925, AA54177, AW023672, AL493708, AL119691, AA101689, N23896, AF567076, AA515909, R24887, AL801482, AL246796, AA579179, AL281881, AW407578, AW341900, AW270270, AA503473, AL171249, AA613232, AT733856, AW062724, AW167372, AW131249, AW419262, AA603362, AW072587, AA507824, AL860020, AW061313, AL355206, AA559241, AL184226, AA483223, AA747480, AA098993, AA720702, AA578481, AL148279, AA587991, AA642060, A056177, AT79417, F34498, AL279037, AL933714, AL148277, AT73375, AA326441, AA614163, AA613345, AA446657, AW162489, AA805846, AA719073, R77905, AA874499, AW406162, AL120687, AL120232, AC007676, AL021154, AC007684, AC006285, AP000556, AC004167, AC006480, AL022313, AL049553, AC012627, AC006538, AC004526, Z15025, AL121757, AL121603, AL133371, AC002070, AL035089, AL096791, AC006312, AC000026, AL035079, AC005358, AC003029, AC004638, Z95152, AC002059, AL031667, AC005736, AC005089, AC007537, AC003046, AC003553, AL020997, Z74739, AC004020, AC007055, AC004817, AL008718, AP000151, AP000090, AL109628, AC007226, AC007277, AL003147, Z73887, AP001038, AL008583, AC000003, AC002525, AL135744, AL021808, AP009662, AL035249, AC005667, AC007066, AC007546, AL049713, U07563, AL049776, AC006511, AC004583, AP000134, AP000212, AC005102, AC005071, AC005940, AL031431, AC005520, U62317, AC005971, AL021392, AC005164, AC005921, AC004024, AC010170, AC005375, AC007014, L78833, AL080317, AP000260, AL035458, AC005288, AC005808, AL049636, X16873, AB023049, AC005562, AL008582, AC005411, AL049830, AC000090, U95740, AC005548, AL080242, AC006006, AF196969, AL035659, AF03356, AP000281, AC000081, AC006241, AC005081, AC004891, AC004598, AC004019, AC007191, AF001550, AL035450, AC005015, AC005837, AF165926, AC005409, D87675, AC004675, AC006077, AC002544, AC007993, Z93017, AP000252, Z83843, AP000036, AC0004605, AP000039, AL031733, AC002310, AF196972, AC005839, AF111168, AC005527, AP000302, AC002365, AC006515, AL031390, L78751, AL031673, AC005694, AL109865, AP000557, AC007021, AC008115, AF088219, AC007227, AC002288, AC007371, AC006252, AC003682, AC005585, AC004875, Z99755, AC004887, AC004655, AC006548, AC005193, AC006013, AL035420, AC005484, AC002470, AC004386, AC006441, AC004913, AL132712, AL022318, AC004079, AC005479, AC006539, AL080243, AL031296, AC006251, AL022320, AC002565, AC004878, AC003982, AL031282, AP000501, AB003151, AL121658, AF139813, AP000115, Z85996, AP001053, AC007664, AF031078, AC000379, AC007917, AL034549, AC007510, AC004021, AC003081, AL021918, AC005913, AF134726, AC004408, AF030876, AC004381, AC005046, AC006115, AC006984, AC007292, AC002036, AC008101, AC004112, AC003663, AC002119, AC006130, AC005521, AC006101, AC006315, U85195, AC009904, AC005914, AP003626, AL021807, AF124523, AC005202, AC004797, AC002477, AP001054, AL049539, AP000356, AC016027, AC006139, AC002395, AC005529, AC005841, AC004972, AC005535, AL031589, AL034343, AC005284, AL022329, and AL246003. </p>
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HNNH72	5256	510619	1 - 716	15 - 730	AA434086
HNNH06	5257	935517	1 - 418	15 - 432	AC005280, AL109628, AC006006, and AC004686.
HNNH39	5258	937598	1 - 400	15 - 414	
HNNH46	5259	718081	1 - 435	15 - 449	
HNNH62	5260	741835	1 - 214	15 - 228	
HNNH74	5261	765601	1 - 324	15 - 338	
HNNH84	5262	781980	1 - 358	15 - 372	
HNNH93	5263	792326	1 - 548	15 - 562	TI2412, Z73967, and AL031985.
HNNH22	5264	674617	1 - 321	15 - 335	
HNNH70	5265	757201	1 - 339	15 - 353	
HNNH74	5266	765598	1 - 212	15 - 226	AA657808, AA742830, AC006561, AC004751, AL021367, and AC005060.
HNNH92	5267	756387	1 - 249	15 - 263	AC002288, AC002350, AC005076, AC007052, and AL049569.
HNNH10	5268	964656	1 - 324	15 - 338	
HNNH17	5269	661964	1 - 153	15 - 167	
HNNH25	5270	678144	1 - 272	15 - 286	
HNNH28	5271	575451	1 - 450	15 - 464	AI860558, AI963420, AI683827, AA342712, H74211, AA497013, AA342852, H73133, AA387516, H91062, AL120897, AA176978, AA847499, AA808173, AI243789, AI284045, AA477103, AI216799, AH71691, F09180, AA653618, AA488746, AA491882, T06828, AA224902, AI357288, AC005899, AC002492, AC009247, D87675, Z95152, AC004257, AL031282, AC009516, AC005779, AL022323, Z98036, AC003684, AC002394, AC005399, Z83840, AC007664, AC007263, AC004491, AF111168, AI066996, AC004887, AC005736, AC002404, AL031428, AC005632, AC006023, AC002119, AC006538, AC005914, AC004024, AC003109, AP000356, Z93016, AJ246003, AP000097, AC006873, AC006111, AL122020, AC007371, AL021394, AC006116, AL050348, AC003029, AC004797, AL049869, AC005209, AC007546, AL022326, AL008382, AL078477, AL049776, AC006312, AC006285, AC005907, AC002350, AC007225, AC004019, AL035683, U95742, AC006487, AL121635, U91326, AC006064, AC006120, AC005067, AP000557, AP000011, AL096791, Z69917, AC004827, AC005783, AC005562, AC007731, AC004890, AC003957, AC006014, AC005089, AC000393, AC007216, AC004668, Z95114, AC004686, AL008629, AC002546, AC003563, AC005324, AF200465, AP000505, AC004148, AC006480, AP000092, AC005962, AL034379, Z15025, AL031577, AC004675, AL009181, AL133243, AP000201, AC006468, U91318, AC007748, AL031311, AC005822, AL133448, Z86090, AL109654, AC005411, AL050307, AF129756, AL008729, AL021807, AC005306, AF005588, AL121638, AC006360, AC000134, AC007052, Z68756, AC000052, AC004999, AC004819, AL031594, U80017, AC004771, AC006050, AL078634, AC004552, AL049830, AC004938, AC004757, AC004905, AL049759, AC004448, Z70280, AF042884, AL079340, AC007192, AC005480, AL109628, AC005821, AF088219,

HNHMH35	5272	706667	1 - 320	15 - 334	AL034429, AC007686, AC003108, AC005619, AL035450, AL021578, AC006643, AC004841, AC006649, AL022312, AC009049, AC003007, AC002316, AC002430, AC005081, AC002477, Z98050, AP000241, AC008116, AC003578, AP000556, AC005722, AF124731, AC002472, AL034417, AL031291, AP000141, AP000346, AL031289, AL033695, AC004233, AL002453, AC007395, Z93244, AC006277, AC006035, AC06441, AL049709, AL031680, AC004531, AC004259, AC005500, AF045555, AP001054, AL049766, AP000359, AC002425, AC005488, AC005900, AL021453, AC007030, AL008735, AL109627, AL121769, and AL049694, Z93021, AC007446, and AC006314.
HNHMH37	5273	708715	1 - 147	15 - 161	
HNHMH52	5274	727166	1 - 290	15 - 304	
HNHMH55	5275	694373	1 - 528	15 - 542	
HNHMH70	5276	757202	1 - 245	15 - 259	
HNHMH80	5277	880776	1 - 319	15 - 333	
HNHMH03	5278	920129	1 - 452	15 - 466	
HNHMH07	5279	953393	1 - 347	15 - 361	
					F74218, AW023111, AA936718, AA364006, AL440117, H29914, AA581927, AA523695, AL266028, AA486542, A4788392, AL493583, AA018923, AW304536, AL310464, AL727704, H73902, AA502207, AA507684, AL912401, A4610233, AL268732, AL133246, AL117344, AC004491, AL031659, AL049631, AC003071, AC005303, AL035455, Z98749, AL022396, AC005823, AL031904, AC004686, AC004976, AL035496, AP000237, Z82176, AC002126, AC003684, AL031311, AC018769, AC007066, AL118516, AP000098, AC007878, AL049569, AC006509, AC006449, AC005940, AC005082, AC003029, AP000356, AL078581, AC002470, Z93241, AL080243, Z85996, AL135744, AC004622, AC004883, AC006581, AC007687, AC020663, AL121653, AC005005, AC004815, AP000194, U91321, Z98304, AC005057, AL133243, AC005874, AF134471, Z84476, AF124523, AC004983, AL139054, AP000022, AC004991, Z83844, AC009247, AC005089, U96629, AC009509, AC002477, AP000022, AC007450, AL022398, Z84474, AF196971, AL031673, AC005914, AF047825, Z93784, AC004525, AC004033, AL022324, AL022323, AP000163, AL049843, AC004967, AC003007, AC007919, AC005231, AC004134, AL034430, AC002040, AC007773, AL121825, AC007637, AL049776, AC002045, AC008040, AC007541, AC006236, AC007371, AC002300, AP000115, AC006077, U80017, U94009, AC002301, AL035457, L44140, AC005274, AC006205, AC005377, AD000092, AC004878, AC005632, AC007731, AC005829, AC004859, AC005031, AP000113, AP000045, AC004834, Z82215, AC006455, AF111168, AC006312, AC008033, AL049709, AC005899, AC002072, AC005378, AL031587, AC003129, AL031230, M55987, AL035086, AL022318, AL049849, AC010206, U29874, AC007051, AL021391, AC000035, AL049869, M89651, AC005412, AC005666, AF038458, AC007386, AC003051, AF036405, AC004922, AC005102, AC004914, Z83383, AC004408, AL109865, AL031432, AC006388, AC002395, AL031680, AC004813, AP000956, AF165926, AC006071, AP000313, AF035356, AC004382,



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					AL079342, AC0053771, AL031848, AC004783, AC005746, AC005587, AC007372, AC005953, AC002565, AC002551, AC006121, AC007055, AC005671, AL049837, AL122023, AC003690, AL009181, AL031659, AL034548, AL008734, AC002126, AC005231, AL034420, AC003665, AF126403, AL012187, AC005899, AC007066, AC005332, X71402, X95887, AC005086, AL008720, AD000812, Z82171, Z73964, U15177, AC005619, AL035465, X55448, AP000288, AC008150, AF157623, AP001199, AP001103, AP000033, AC000085, AL109938, AL035443, AL031000, AC004966, AL031587, AC004033, AL022162, AC004025, AL022318, Z95114, AL022319, L44140, AC002041, AC004590, AL139165, AC008041, AC006203, AC004988, AC005752, D84401, AP000241, AP000201, AC004832, AC005004, AC005476, AF124731, AP000097, Z94056, Z92542, AC005585, AC004832, AC006312, AC006211, AC005157, AL034549, AC003007, AL035690, AC005099, AC004834, AL049795, AL022326, AC004552, AC006285, AC008273, AF001530, AC007731, AC005590, AL031733, AL139054, AC006948, AC001234, AP001066, AL050348, AP001065, Z93020, AC00378, AP000555, Z84487, S79836, U11297, AC006512, Z94802, AP000310, AC004985, Z49862, AC002306, AC000381, AL109801, AL023694, AL021546, AL022333, AP000116, AP000502, AL021069, AC012627, AL009051, and AL023553.
HNHHO49	5287	722991	1 - 340	15 - 354	AA826320, AL569363, AA10834, AL064935, AA715814, AA657726, AA508744, AW157667, AA912287, AL792566, AC004595, AC007225, AL035659, AC004803, AC005874, AF134471, AL049714, AL035089, Z84466, AL080243, AC004534, AC005358, AC002544, Z85986, AC000403, AL031588, X99832, AC007216, AC005027, AC005632, AL031591, AL049759, U52112, AC007011, AC005529, AC004531, U95742, AC004382, AC006449, AC002456, AL009181, AC004472, AC004882, AC004983, AC006117, AC006453, AC002425, Z83822, Z83845, AC002543, AF047823, AL031005, U47924, AC009479, AC002067, AP000493, AL031767, AC005606, AC003104, AC004876, AC000085, AC005666, Z99129, AC007688, AL035460, AC002468, U91321, AL049843, AL033527, AC009248, AC003098, AP000510, AC005154, AC004832, U62317, AC002349, AC005682, AC004894, AL020997, Z98044, Z98051, AC009516, AF165926, AL117258, AL031589, AC004216, AP000240, AC005231, AC005193, Z93244, AC005071, AC004859, AC007055, AC007298, AB023048, AC006013, AC004966, AL049766, AC004196, AC005704, AC002492, AC006088, AC006441, AL034555, AC002126, AC004598, AC002064, AL049869, AL021154, AC005568, AL031283, L29074, AL049631, AL031602, AL031133, AL035458, AL133448, AL049779, AF037338, AC004821, AP000558, AC005225, and AC009731.
HNHHO66	5288	727167	1 - 325	15 - 339	
HNHHO79	5289	774038	1 - 311	15 - 325	
HNHHO2	5290	920120	1 - 329	15 - 343	
HNHHO4	5291	935501	1 - 300	15 - 314	
HNHHO16	5292	661962	1 - 343	15 - 357	AC005596.

HNHHR04	5293	935502	1 - 341	15 - 355	
HNHHR46	5294	720358	1 - 334	15 - 348	
HNHHR61	5295	741830	1 - 311	15 - 325	AL022396.
HNHHR93	5296	775194	1 - 399	15 - 413	
HNHHS46	5297	956186	1 - 671	15 - 685	AA553367, AW452948, AA828734, and AI912090.
HNHHS74	5298	765584	1 - 408	15 - 422	AA585573, AC005036, AL021026, AC003951, AL034551, Z83820, AC002463, Z68325, AC004062, AC004949, and AP000082.
HNHHS76	5299	788913	1 - 300	15 - 314	AI541356, R29657, AA585098, T18597, AA585325, R45895, Z28222, AA585101, D53161, R28735, R29445, D57491, C15406, AI557740, Z28355, D59751, AA585155, AI557864, R28892, D61185, Z32887, C15069, AI5526140, AI541365, AI525500, AA170832, AA585439, R28965, D59436, AA585378, AA585329, R29218, D60844, AI526184, AI526078, AI557731, AA585476, D60765, D54897, R28967, R28895, AI557727, AI541205, AI541535, AI546971, C16315, AI525556, AI525316, AI541383, AA283326, AI541517, AI547250, AI546875, AI557763, D61254, AI557734, D53472, AI546999, AI526016, AI557787, C16293, AI541013, AI547039, AI557807, D55233, AI525306, D53447, C16300, AI541374, C16294, C15120, AI557084, D2835, AA585356, AI524945, AI541346, C16292, AI557718, AI546945, AI525431, AI557155, AI547196, C15762, AI557408, AI526191, AI557758, C16305, AI541523, Z20131, R29179, AI552539, AI541034, AI526194, C15737, AI557809, AI546921, AI541307, AI546996, AI540967, AI546891, AI547006, AI540903, AI557602, AI540974, D60730, C16296, AI526109, Z33559, R29177, AI525320, AI557279, AI547202, AI526176, D57186, AI541321, AA585345, AI526094, R29262, AI557808, AI526112, R29172, AI526138, D51433, C14208, AI541527, AI535639, AI535660, AI536138, D54850, AA585430, AI546829, AI557533, AI526113, AI541510, C16290, AI525856, AI557039, AI526195, R29458, AI556967, T19407, AI547137, AI526073, AI526180, AI557264, AI546831, T41289, Z36724, AI541422, AI525656, AI526117, AA174170, AI525332, AI526187, AI525286, AA514191, AA585117, AI541515, AI547189, AI239433, AI540920, T41329, AI541492, AI524904, AI524890, AI557799, AI524891, AI546855, AI541027, AI541345, AI557041, AI557238, C14322, AI557852, AI546828, AI541506, AI541415, AI557082, AA585434, AI526205, AI557786, C14391, AI541402, AI525114, AA585440, AI546901, AI557317, AI557285, C14773, AI525168, AI526146, AC005913, AR038762, AR038855, AR062871, AI525909, Y09813, X82786, Z22836, AR054723, AI021395, X31969, AI244005, Y16359, AF082186, D7834, D50010, D13509, AI244004, A20702, AR062872, AR062873, A20700, AA3189, AA4188, AR017907, AI244003, AC002563, X55486, X76012, AC007308, AC002470, AI031293, AC002430, and AC007384.
HNHHS79	5300	775192	1 - 359	15 - 373	
HNHHS35	5301	707342	1 - 392	15 - 406	AC000093.
HNHHS55	5302	465438	1 - 418	15 - 432	AI274692, T40452, F33126, AA076426, N25415, AA321595, AA975915, AI273675, AI268564, AI274692.
HNHHS70	5303	783033	1 - 180	15 - 194	

HNHHU46	5304	465395	1 - 346	15 - 360	<p>AW276933, AL138918, AA741020, AL171804, AL1812021, ALA640204, ALB343078, AW341882, LT6991, HT3565, AF109907, AL034423, AC004491, AF038458, AC005668, AL033527, AC005740, AC004552, AC005822, AC005548, AC007546, AL109733, AF088219, AC005859, AC003959, AL035089, AL009181, AC006343, AC005082, AC005919, AC00470, AC004531, AC007388, Z98047, AC006059, AL121603, AL023799, AC005291, AP000696, AL135744, AC006996, AC007312, AC003698, Z94721, AF003626, AC004858, AP000688, AC002070, AC004967, Z98941, AC008372, AL031117, AC004841, AL035423, AL139054, AC005539, AL035695, AC005971, AP000031, AC004916, AC000658, AL109865, AC004217, Z98946, AC011311, AL035400, AC003071, AC004685, AL049833, AP000344, Z94056, AC004849, AL109963, AL021408, AL133245, AC007376, AC002381, AC007938, AC001284, AC005049, Z84469, AL080243, AF117829, AC006305, AC004870, AC005800, AC002312, AL251973, AC005412, AL031650, Z98304, AC018769, Z96074, AC005994, AL035555, AL031673, AC006441, AL023807, AL023281, Z86062, AC005670, AC005158, AC002416, Z99716, AC007878, AL049696, AC004003, AC003950, AP00516, Z98732, AC004813, AL117694, AC045583, AC004801, AL049776, AC002365, AC004522, AL049843, and Z93241.</p> <p>AL1950671, AA586656, BU5325, AA6829563, AL061739, AC005837, AC0006285, AL121595, AL050317, AC002527, AC006088, AC005318, AC002996, AC004942, AC005841, AF165926, AC005209, AC016025, AC005368, AC007151, AC005971, Z83840, AC005914, AL002477, AF020588, AL133382, AL049766, AP000347, AL021652, AF033356, AC006011, Z82744, AL1008721, AL0202345, AL049776, AL133163, AL133245, AL050318, Z99716, AL049712, AC003109, Z970533, AC006468, AC008372, AC004821, AC004048, AC005924, AL034343, AC005899, AC004854, AC005765, AC002369, AL021808, AP000692, AL109798, AL049829, AC004601, AL049759, AC006449, AC005933, AL023807, AC004966, AC005902, AC004019, AC002352, AC016026, Z83826, AC005482, AC004526, AL034379, AL031283, AC005529, and Z95114.</p> <p>Z98885.</p>
HNHHW01	5305	859935	1 - 407	15 - 421	AA824650, AA663908, AL302974, W89152, AW338697, AL035400, AC005912, M63543, M63544, AC007227, AC004841, AC004263, AC007327, AL023807, AC007993, AC006430, AC005764, AF141309, and AC004408.
HNHHW32	5306	699255	1 - 272	15 - 286	
HNHHW58	5307	739288	1 - 228	15 - 242	
HNHHW61	5308	742071	1 - 145	15 - 159	AL119119, C06013, T11417, D59503, D81111, D80064, C14227, D58246, C14389, D80195, AW360811, D59502, AW177440, D51799, D80164, AW178893, C15076, D81026, D80258, AW375405, D59467, C14407, D59275, D58283, D58101, D80227, D80022, D81030, D80166, D59859, C14331, D80193, D59619, D80210, D80391, D80045, D51423, D59787, D80038, AA305578, D80253, D80043, D80217, D80196, AW366296, D80188, AW360844.
HNHHW73	5309	765588	1 - 322	15 - 336	
HNHHW02	5310	920094	1 - 482	15 - 496	

				AW360817, D80219, D57483, D59610, D59027, AA514184, D80378, AA514188, D59889, D80024, D80302, AS57774, D80439, AW177501, D80269, AW177511, C14298, D80247, D50979, D80522, AA305409, D80251, D80168, D80241, D80014, A1557751, D80268, D80366, D51022, C14429, D80248, D50995, C14014, D59695, D51060, F13647, AW360841, D51103, D80133, AA514186, D80157, AW179328, AW352117, D52291, D59653, AW360834, A1535686, D52600, AW35406, D51759, D59627, AW378534, C03092, T03116, AA809122, AW179332, AW377672, AW378539, D80949, AW179023, AW178905, D51079, H67866, T03329, A1525923, AW377671, H67854, AW378533, C05695, C75259, AW378532, AW369651, AW332171, AW178907, D59317, AW352170, A1525920, AW177505, D59373, AW178906, D51250, AW377676, AW179024, AW178775, D59551, A1525917, T48593, AW177731, AW178909, AW177456, C14973, AW378528, AW178762, AW179019, C14344, D51221, AW179329, AW179018, AW178980, D59474, Z11582, AW178754, D60010, D60214, AW179020, AW352158, A1525227, AW178908, C14046, A1910186, AW177733, D45273, C14957, A1525235, AW179012, A1525923, AW352120, AW378525, A1525242, AW179004, A1525215, AW177734, AW367950, D51213, AW178986, AW178914, AW178774, AW176647, T02868, D59976, A1525912, AA285331, C14077, A1525222, AW178911, A1525928, AW378543, A1535959, AW378540, AW177722, AW352163, C13958, AW360855, A1535665, T03048, AW177728, C04682, D51053, D31458, Z30160, N66429, D80314, D80228, AC000378, A82595, AR060385, A84916, AB028859, A1132110, A62300, A62298, AB002449, AR018138, AR008278, AR058696, I50126, I50132, I50128, I50133, AR016808, I14842, AR054175, Y17188, D26022, AR016514, X67155, A67220, Y17187, AR060138, Y12724, D89785, A43456, A94955, A26615, AR052274, A43192, A63261, A43190, AR038669, A78862, D34614, A70867, AR066488, A25909, Y09669, AR066487, AR062872, A30438, AR008277, AR008281, AR008443, I82448, AR016691, AR016690, A46128, D88547, I79511, A64136, A68321, X92626, D50010, AR008408, X68127, X64588, AR025207, AR060133, AFI22363, and AR032065.
HNHIA16	5311	661931	1 - 411	15 - 425
HNHIA20	5312	669685	1 - 408	15 - 422
HNHIA34	5313	706675	1 - 192	15 - 206
HNHIA38	5314	736046	1 - 378	15 - 392
HNHIA64	5315	745861	1 - 437	15 - 451

FNHIA73	5316	559344	1 - 258	15 - 272	AC004317, AC005365, AL079295, AL049747, AF109907, AL049869, Z81369, AC003950, AL008725, AL080317, AC007993, AC001083, AC005531, AL109628, ZJ246003, AC005180, AC005618, AC002312, AF196969, AF111168, AC005535, AC005220, US8668, AL031595, AC002400, AL003548, AC004596, Z83826, AL031848, AC004222, AC004878, AL008822, AC006487, AL034420, AC005844, AC007688, Z83847, AC006544, AC005277, AC007225, AC005911, AC005229, AC004148, AC005500, AC005486, AC005300, AC002470, AC007227, AP000692, AC005003, Y14768, AF207550, AL049569, AC005821, AC005057, AP000103, AC003800, AL035405, AL022315, AL079304, AP000087, AP000505, AC005377, AL117694, AC002094, AC003983, Z84056, AC005288, Z86061, AC004638, AL109013, AC004491, AF031078, AC005274, AF134726, AC005081, AC005082, AL031427, AC007283, AC005261, AL080243, AC005089, AC005529, AF196972, AC005399, AP000533, U91326, AC003109, AF030876, AL121658, Z98048, AC007226, AC007308, AC007421, AL121653, AC002430, AL0035249, AC002310, AC006101, AC005015, AC004797, AF129756, AE000658, AC011456, AC005921, AL109798, AC005940, AC005484, AC005231, AC005412, AC005871, AC006064, AL031587, AC006077, AC007384, AC009509, AC004477, AL109952, AC006948, AP000117, AL022334, AC005252, AL133246, AC006468, AC005578, AC006096, AL049872, AC004883, Z98044, Z99716, AC007546, AL022322, AC004033, AC004475, Z81359, AL049843, U07563, AC004000, Z99116, AL031432, AC004812, AC006571, AC005157, U08459, AC004832, AC007731, AP000350, Z98304, AC005031, AL031133, AL022326, U91321, U08459, AC004832, AL031659, AC002477, AC006121, AL121652, AL035071, AC004494, AC005387, AL049766, AC004858, AF196971, AC00378, AP000689, AC004693, AL078584, AC008072, AC007551, AC011362, AC000353, Z99128, AP000045, AC005881, AC007676, U07562, Z70288, AL0050306, AC007842, Z83844, AC004813, AL023575, AL080242, AC007774, AC005702, AC006953, AL133396, AC005971, AC002351, AL078638, AC005600, AC005668, AC005335, AC006025, AC002316, AC022517, AC002369, AC002395, AL050341, D87675, AC006285, AC003663, AC006315, AC004125, AL139054, AC004922, AC004150, and AC004531.
FNHIA94	5317	970720	1 - 295	15 - 309	
FNHIA95	5318	908419	1 - 434	15 - 448	R93353, AA447817, AA574189, AW139964, W81697, AL887846, AA831618, AA677404, AL124782, AA447667, AA765804, AC008173, AF124523, AF146367, AF118808, Z83841, AC002464, AC005820, AC006048, AC004074, AP000509, D84394, AL096775, AL109954, AC007359, AC008175, AL096801, and AC006313.
FNHIB22	5319	967038	1 - 348	15 - 362	
FNHIB56	5320	734763	1 - 318	15 - 332	
FNHIB77	5321	781214	1 - 396	15 - 410	
FNHIB94	5322	793210	1 - 338	15 - 352	AA663964, and AL035106.
FNHIC39	5323	705375	1 - 410	15 - 424	AL121782.

HNHIC46	5324	842003	1 - 441	15 - 455	AA169263, AA610219, N23896, AA053911, AA526630, AW074382, AA747469, AA719510, AA532882, AS537772, A660009, AA961035, AA804925, AA378690, AA380354, AA829073, T00681, AA564865, AW191886, A1678368, AS528356, AA557883, A0021583, AA807583, AA679154, AA013624, AA333944, A1802801, A1720058, AA706291, AA410354, AA137013, AA662976, AA333907, A1830557, AA338544, A1791150, AA954924, A1254779, AA847515, AA599550, AA807845, AA127426, AA551105, AA630672, AA613232, A17148507, AA450888, R58559, A1249683, AA659535, A1047349, A1069572, A1037632, AF034194, AF037630, AA531580, C75192, A1267818, AA722297, A1654738, A1768520, A1811563, AA331301, A1079709, A1783549, AA948728, AA640277, A1120986, AA136577, AA011026, AA604840, AA864261, AA668387, A0082559, A1068630, AA664942, A1138329, A005668, A0055722, A0071161, A007308, A0004706, A1133382, Z84489, A0002470, A1096762, Z84487, A0060222, A0010209, A1000252, A0002538, A0006023, A000134, A0000212, A004524, A0006022, A0048001, A1079304, A005288, AF207955, A004967, A1022312, A006353, A006013, A005796, A006572, U91328, A004694, A005593, A1008707, A1021397, Z84469, A006144, A0004263, A0000025, A196969, A0005519, A005527, Z97632, A0008012, A1050348, A1080243, A0006079, A005340, A0005953, A007136, A0040134, A007845, A0066974, A196970, A1031685, A005335, A007868, A005529, A005594, A005280, A004815, A006275, A0009247, A0007066, A1133355, A1022069, A007463, A003009, A000159, A000017, A0000353, A1022320, A0003669, Z97183, A1109963, A111167, A002350, A000359, A0002369, A0004517, Z82901, A0066211, A115960, A1131016, A1031846, A004526, U89335, A1080241, A1133445, A007226, A005940, A004864, A005531, A005932, A1031721, A0014077, Z95017, A005495, A1008723, A004212, A1023050, A000512, A005226, A004841, A000164, A121781, A1022165, U16812, A007193, A000113, A004538, A005666, A004960, A004832, A0002997, A1031229, A004938, A1139054, A004636, A002070, A0009516, A0002299, A0004209, A005736, A004019, A000076, A1031295, A004934, A006130, A0004097, Z83838, A0007565, Z95152, A0000964, A0005756, A0022315, A0004410, A0007435, Z85999, A002105, A005808, A006649, A0004000, AF207550, U73169, A000245, A005837, A1035422, A1133448, A000300, A1034548, A0016026, A1034549, A0008726, A1133371, A004686, A0000994, A1096701, A0038458, A0004486, A1022721, A0002310, A103311, A0010197, A186194, Z93738, A1031296, A0066241, A1078476, A002492, A1039907, A000553, A1020997, A005224, Z11900, A1096774, A005255, A005360, A1227510, U91322, A000364, A000514, A000510, A000556, A000557, A0003007, A007041,
HNHIC46	5324	842003	1 - 441	15 - 455	
HNHIC96	5325	779876	1 - 371	15 - 385	
HNHID29	5326	690646	1 - 391	15 - 405	
HNHID53	5327	727151	1 - 395	15 - 409	
HNHID55	5328	731761	1 - 438	15 - 452	

				AC005632, AL133297, AL049766, AC004099, AB022785, AL121769, AP000697, AC007666, Z97056, AL031680, AC004553, Y14768, AP000045, AL122020, AC002468, AP000550, AC007312, Z98752, AL031230, AC005160, AP003948, Z93023, AL034429, U85195, AF027390, AC004707, AL109939, AL031589, AL121603, AF063596, AC004859, AC004778, AC004646, AC008018, AP000155, AP000305, AL049776, Z74739, AC000052, AL034376, AC005144, AC004776, AP000356, AC006001, AE000638, AC004812, AC006312, U95742, AC003950, AC004887, Z84480, AC005694, AC006138, AL049647, AC005823, AC004149, AL031432, AL049539, AC005695, AL078583, and AB023048.
HNHIH79	5329	774044	1 - 445	15 - 459
HNHIH75	5330	765585	1 - 403	15 - 417
HNHIH72	5331	921945	1 - 652	15 - 666
HNHIH70	5332	916503	1 - 396	15 - 410
HNHIH69	5333	465504	1 - 315	15 - 329
HNHIH67	5334	668657	1 - 417	15 - 431
HNHIH65	5335	708713	1 - 400	15 - 414
HNHIH68	5336	753023	1 - 398	15 - 412
HNHIH71	5337	465407	1 - 414	15 - 428
HNHIH73	5338	675262	1 - 311	15 - 325
HNHIH77	5339	681727	1 - 424	15 - 438
HNHIH79	5340	689891	1 - 182	15 - 196
				D45273, D80269, D59467, D80227, AA809122, D50995, D51079, D80043, D59275, T11417, D50979, Z21582, D80378, Z33452, C14077, F13647, T03048, T02868, D51423, A1525242, Z30160, H67854, D80188, D80247, D57483, C14331, T02974, D51799, AA514188, A1557774, C14344, D59610, C14407, D59927, AA305720, D80241, D58101, A1525237, A1525917, A1525920, A1525903, A1525738, N66429, A1525907, A1525227, A1525215, A1525969, A1535961, AR008277, AR008281, AB002449, AR010808, AR008278, A84916, T79511, AR054175, AR018138, and AR058696.
HNHIH46	5341	720333	1 - 402	15 - 416
				AA480792, AL687146, AA594072, AA351003, AA984114, AC002530, AC004637, AL009031, AC002336, AC002352, AC004408, Z70280, Z96104, AL033504, AP000503, AF134726, AC000134, AJ239322, AC005939, AL109847, AC002978, AL118498, AC004019, AL031733, AC008115, AB016897, AF095725, AL109623, AC002546, AC004125, AL139054, AC005859, AC008040, AC000081, AC005512, AP003236, AP00169, AP000054, AP00122, AC006088, Z97832, AL049830, AC000118, AL009178, AC004167, AL009174, AL034423, Z93017, AC007486, AC005881, AL109628, AP000555, AC004684, U79746, AC002477, AC005229, AC002044, AC000353, AC005562, AL020997, AC002072, AL049694, AC005484, AC000343, AC012089, and AL136297.
HNHIH58	5342	739290	1 - 343	15 - 357
				AL031728.



ENH1H66	5343	684531	1 - 162	15 - 176
ENH1H71	5344	760371	1 - 311	15 - 325
ENH1H73	5345	760591	1 - 419	15 - 433
AC005209.				
AW069227, AW406755, AL041375, AT791659, AL479148, AL65988, AL58229, AL413103, AS502532, AT753365, AL540228, AS152155, AA226584, AL352546, AS573020, AW151541, AW419262, AA482711, AA861959, AL609972, AT749526, AW193265, AA424249, RG77011, AA128592, AJ912401, AL156440, T29180, AL189505, AS926102, U0840112, F00982, AH431434, AA148489, HT9586, AE26352, AL904211, AH714181, AA176605, AT798449, AA015948, AW316969, AA984258, AL244254, AT752114, AA610491, AW084173, AL1888468, AT797998, AS161955, AL634187, AA646923, AA862912, AA864289, AT754105, AS584482, F36273, AA904275, AS169363, AA611996, AA601680, AA642809, AL044858, AA006064, AC004477, AC020663, AC006111, AL053684, AC005488, U85195, AC007376, AL000638, U47924, AP000462, AC005695, AC004834, AB017654, AC005081, AC005257, AL021546, AC002369, AP000557, AL094969, AC004019, AL049872, X55928, AC007993, AC008545, AL008726, AL009181, AP000348, AL022237, AC005037, AF111168, AC002425, AC006449, AL023575, AL135744, AC005841, AC004156, AC005253, AC005480, AC004752, AC007387, AF207350, AL135744, AC006125, AF053536, AC005034, U78027, AC005776, AC007421, AC006952, AC005215, AC006512, AC006512, AP000355, AC002544, AC002395, AL000092, AL035455, AC002310, U95742, AL034379, AC005048, AC003682, AL079295, AL035072, AC002316, AC004812, AC002126, AC005071, AL035089, AC005381, AC004491, AC004496, AC005409, AC004263, AC005971, AL034420, AC002477, AC005330, AC004983, AC005412, AC002492, AL031390, AC004216, AL033447, AL031767, AC002326, AL031311, AL031685, AC005305, AC006014, L51997, AC009516, AB008882, Z98752, AC005057, AP000211, AP000133, AC007785, AC0016025, AL133245, AL022323, AC006011, AC004106, AC000075, AC007546, AL021707, AC004857, AL078581, AC000084, AL136295, AC005399, AL109738, AC002314, AL132641, AC005726, AC006112, AL096702, AC002491, AF011889, AL080243, AC007242, AC007298, AP00210, AC000132, AP000115, AL022476, AC007226, AC007216, AC008126, AC007845, Z86909, AL022165, AF045555, Z81369, AC005944, AL031662, Z98048, AC004098, AC005722, AC003029, AC007182, AC005740, AL121934, AC004150, Z92540, U29953, AL132642, AL133553, AC005069, AC006511, AC006315, AC004890, Z84480, AL096701, AC005527, AF109907, AC003982, Z99291, AC004167, AL031680, AL0306139, AC007263, AP000511, AC004253, AC005193, AP000556, AP000552, Z84466, AC006641, AL0304548, AL109827, AL130318, AL049831, AL031255, AC006530, AC007240, AC006291, AC004072, AC002347, AC005914, AC005378, AL022327, AC004494, AC005668, AF001550, AL001579, AF031078, AF000248, AL109963, AP000555, AC005519, AP000356, AF155238, AL034555, AP000512, AC006077, AP000045, AP000113, AC005746, Z82180, AL020995, AC003006, AL031005, AC006365, AF030876, AC006071, AC006948, AC002394, AP000501, AC007541, Z99716, AP000334, AL031228, AL031120, AC005516, AL105587, AC004583, AC005225				

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HNHIF82	5346	779874	1 - 414	15 - 428	AL023653, and AL022162.
HNHIF96	5347	734114	1 - 596	15 - 610	AC005137.
HNHIF96	5347	734114	1 - 596	15 - 610	
HNHIF84	5348	775407	1 - 435	15 - 449	
HNHIF14	5349	967087	1 - 405	15 - 419	
HNHIF95	5350	795877	1 - 333	15 - 347	
HNHIF13	5351	657249	1 - 390	15 - 404	
HNHIF235	5352	707339	1 - 391	15 - 405	AA121919, N69190, AL079423, AL119438, AL539009, Z99426, Z98051, AL121769, AL096853, AC005839, AC003663, AC002994, AC006077, AL121603, AC005529, AL109628, AC005755, AL021939, AC005726, AC005678, AL031594, AC004263, AC010582, AC005089, Z98745, AC004039, AP000512, AC005914, U95195, AB000658, Z83826, AL035387, AL009181, AC006571, AC007686, AL022345, AC004382, AC006372, AC005004, AL031589, AC002115, AC004955, AL080242, AC008015, AC004383, AC006509, AC004087, AC006505, U96629, AC003682, AF038458, AL049636, AC005803, and AC004967.
HNHKL15	5353	859926	1 - 409	15 - 423	
HNHKL60	5354	739885	1 - 335	15 - 349	
HNHKL24	5355	859923	1 - 377	15 - 391	AA847395, AA523331, R98239, AL473300, N49802, AA557790, AL609972, AA655005, AA486877, H68186, N95156, AL102917, AFV72599, AW327624, AL037714, AW32782, AC003967, AP001050, AL022098, AF124730, U91318, AL109738, AC004771, AC005256, U95090, AC005330, AC005622, AL008726, AL049610, AL035588, AC004743, AF064861, AC004821, AP000688, AC007386, U82828, AC005722, AC005392, AC004456, AL024461, AC005907, AC006130, AL031777, Z93930, AC005006, Z83851, AC004881, AL024498, AL024509, AC004765, Z96074, AP001053, AL049869, AL109759, AC004382, AL133246, AC005799, AL034429, AC005048, AC004049, AB003151, Z69920, AL050307, AL031664, AL022165, AC005017, and AC005083.
HNHKL72	5356	761427	1 - 301	15 - 315	
HNHKL88	5357	766555	1 - 461	15 - 475	AA745582, AA533457, AL097850, AA515224, AA594145, AL570261, AL439360, AL623898, AA310868, AL659826, AV341890, AA704643, AA663306, AA587604, AA805573, AW338086, AA347930, T40077, AA743980, AL590772, AW406755, M86143, AL635988, AW250970, AA358409, AA347927, AA780929, AF147277, AL049776, AP002994, AL118497, AC002544, AC005291, AL035420, AL031276, AP000043, AF196779, AC002350, AC004854, U95742, AL008582, AC006285, AP000111, AC003965, AC002553, AC016025, AC005911, AL049557, AC004955, AF134726, AC0010197, AC002470, AL121877, AC005231, AL035681, U96629, U75285, AC006241, AC008273, AC010200, AC004801, AF053356, AC005969, L44140, U91326.

HNHN73	5358	762011	1 - 548		AC005594, AC004076, AC005510, AL132712, AC004745, Z68872, AC004972, AL108708, AC007793, AF088219, AP000082, AP005557, Z93017, AC006231, AF045555, AC009731, AB020867, AC008079, AP0014079, AC003082, AC005197, AC004890, AL096701, AC007032, AL049697, AC004263, AC007731, AC005500, AC009784, AC002363, Z72650, AC004690, AL035699, AC006139, AC000003, AC006153, AC000359, AC004650, Z77807, AL035455, Z73417, AC003353, AL023879, AC009509, AB023051, AC005409, Z86061, AC004234, AC000094, AC005944, AP000223, AC000085, AC009178, AF200465, Z97196, AL031584, AC003781, AL022320, AC007308, AC006946, Z83840, AL121653, AC002316, Z97084, AP000952, U13079, AL022721, AL121915, AC004019, AP000552, AP000303, Z8382, AC005181, AC008124, and AP000512.
HNHN73	5358	762011	1 - 548		AC005216.
HNHN73	5359	793658	1 - 336	15 - 562	
HNHN73	5360	721149	1 - 726	15 - 350	AA421400, and AL208373.
HNHN73	5361	761432	1 - 722	15 - 740	
HNHN73	5362	750487	1 - 318	15 - 736	
HNHN73	5363	766926	1 - 311	15 - 332	AA491361, AA297081, AA649079, AL362442, T31183, AL570805, AA468289, AL732682, AL872493, AL289050, AL872476, AL284092, H25626, AA337978, AL610900, R86141, H01852, AL078143, AA516045, AL035417, AC005043, AC001456, AF049895, AP001549, U52112, AC005881, Z85996, AC005244, AP000962, AL022336, AC006241, AC005480, AC007688, AC005625, Z82203, AP000689, AC022517, AB003151, Z93930, AC004383, AC007774, AL035071, M26434, AC006023, AL109653, and AL109657.
HNHN73	5364	766926	1 - 311	15 - 325	
HNHN73	5365	766924	1 - 128	15 - 284	
HNHN73	5366	751205	1 - 363	15 - 142	AC003364.
HNHN73	5367	786020	1 - 348	15 - 377	
HNHN73	5368	786020	1 - 348	15 - 362	H69968, AA601230, AL120191, AA878492, AW104800, AA629963, AL288033, AL800343, H93132, AA501867, AA362790, AA653916, AA525769, AL246061, AA078509, AA079884, AA526662, AL236226, R72242, AW249641, AL123333, R84528, AL869786, AL1034090, AA664248, AA678733, CL1966, AL251241, AL134332, AL284543, AW238212, AL254770, AL251944, AL251034, AL251203, AL251284, AL250552, AW130446, R87912, AA088738, H41308, T08386, AL043315, AW419389, AA487829, AL138017, N25043, AW089950, AL249853, AA286727, AC005348, AC005180, U82828, Z94161, Z81369, AL079295, AC006537, AC007676, AL050333, AL033522, AC005049, AL024498, AF196969, AC005355, AL035067, AL109865, AL009171, AL022328, Z85986, AC006101, AC002117, AC004477, AC005921, AL023876, AL109627, AC007787, AC000070, AC005553, AC004520, AC003071, AC008044, AC005486, AC005697, Z98051, AC005331, AC002364, AC006141, AF222686, Z85999, LA3399, AC020663, AL050313, M89951, AF031078, AC000067, AF030876, AC000067, AF030876, AC005943, AC006088, Z98884, AC004882, AP000260, AC004007, AL030318, AC004765, AL034549, AC002126,

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HNHKW76	5368	767917	1 - 499	15 - 513					
HNHKW81	5369	761429	1 - 520	15 - 534					
HNHKW83	5370	780650	1 - 519	15 - 533					
HNHKX10	5371	963575	1 - 824	15 - 838					
HNHKX38	5372	796804	1 - 513	15 - 527					
HNHKKX47	5373	789623	1 - 457	15 - 471					
HNHKX77	5374	771530	1 - 365	15 - 379					
HNHKZ11	5375	966164	1 - 708	15 - 722					
HNLHA08	5376	958422	1 - 595	15 - 609					
HNLH A16	5377	764264	1 - 800	15 - 814					
HNLHA55	5378	754480	1 - 652	15 - 666					
HNLH A71	5379	761430	1 - 716	15 - 730					
HNLH A89	5380	786461	1 - 547	15 - 561					
HNLH LA90	5381	970724	1 - 595	15 - 609					
HNLHLB08	5382	958416	1 - 445	15 - 459					

				AA679672, AA577906, AL041690, AL379719, AA587604, AA649642, AL349850, AW410400, AL801591, AL918421, AL619997, AL118891, AL298710, AW269488, AA446657, AW17481, AL688846, AL416664, AW386643, AA652057, AL344844, AW008317, AL446638, AW194342, AW080120, AA3309841, AW103758, AA584581, AL375710, AL270117, AW2270716, AL5358343, AL537955, AL143242, AL085719, AL580652, AL632868, AL720758, AA483771, AA846935, AA451612, AL610159, AL955323, AL792287, AA737318, AL061227, AL053790, AL289067, AL921476, AW276817, AL711453, AW023389, AL973803, AL653886, AA457486, AL119984, AL038785, AL568678, AA604136, AA594145, AL754658, AL446464, AL744955, AA908849, AA488395, AW169537, FL8638, AA350859, AL865897, AL110688, AL133164, W79504, C06339, AA346454, AA488432, AL077058, X55925, X54175, D83989, X75335, U18398, AF015167, X54178, U18391, L51997, AF015147, U18390, X55932, X54181, U18399, U18395, U18394, U57009, U57006, S75201, AF015153, U57007, M37551, U18392, U57005, U57008, X55550, U18393, AF015151, U18387, AF015157, AF095855, X55930, X55926, X54180, AF015156, U57004, X55931, X54176, M87919, U67801, AC006466, X54179, U12580, AF196779, AF015149, AC006571, U11309, AP001172, AC008039, AC007262, AF042090, AC008064, AC007845, AC004263, AC005019, AL117256, AF015148, AC006207, AC008079, AL022724, AL049562, AL021407, S70707, AP000552, AL110292, X55928, AC005597, U67231, AL049557, AC006277, AC007308, X76629, AC004232, AC009516, AL078624, AF023460, AC002119, AP000555, AP000049, AL031286, AC008101, AC004987, Z82210, AC007043, U67827, AC005779, AC002365, AC005932, AL023284, AC000086, AL034423, AC005661, AF015170, AP000311, AL034451, Z49816, U67221, AC006019, L47228, AP001052, AC006064, L81869, Z99716, AF015160, AL078593, AC005067, AF015155, AL031123, AL133246, AC005399, AC005081, AC005531, AC005102, AL022725, AC004894, AL020996, AC005620, AL078477, AC007537, AL096768, AC005777, AC001050, AC007450, AL096701, AC006953, Z69466, M16110, AL080243, AL023882, S43650, AC006128, AC007114, AC016026, AC016831, AL031280, AF165176, Z98257, AC006449, AC000025, AC004596, AC002564, AC007317, AL139054, AL049636, Z75887, Z94721, AC006211, AC005527, Z86061, AC006312, AP000156, AC005529, AL121655, AC004019, AC005104, AL049745, AC005911, AC005785, X55927, AL050318, AC002430, U1031295, AC004034, AL096771, AL035458, AL022316, AB020859, AC004033, AC006213, U12583, U80017, AC009223, U95740, AL035450, AF000567, AC005182, AL021453, AC004638, AC004672, AL031281, AC005193, AC007384, AP000330, AC006597, AL021877, Z82180, AC003684, AC005250, AP001054, AC005066, AC004859, AC006241, M87916, U69569, AC006057, AC000118, Z99755, Z92845, AC006479, AC005944, AC004848, AP000357, AC005778, AC007707, AC005046, AF085913, Z82189, AC004217, AC005075, AL031257, Z98051, AC007324, AC004940, AC004985, AC002349, AL035659, AC006285, and AC004699.
HNHL069	5383	754466	1 - 454	15 - 468
HNHL008	5384	859857	1 - 318	15 - 332

HNHLD13	5385	805983	1 - 400	15 - 414	
HNHLD37	5386	859859	1 - 394	15 - 408	
HNHLD81	5387	779345	1 - 288	15 - 302	Z49769, and AC005516.
HNHLE72	5388	966149	1 - 232	15 - 246	
HNHLE75	5389	859856	1 - 244	15 - 258	
HNHLEF33	5390	908449	1 - 243	15 - 257	
HNHLE58	5391	859858	1 - 343	15 - 357	
HNHLEP56	5392	883321	1 - 211	15 - 225	
HNHLEP69	5393	754440	1 - 168	15 - 182	AC004844.
HNHLEP77	5394	967239	1 - 506	15 - 520	
HNHLEQ36	5395	760460	1 - 519	15 - 533	Z94161.
HNHLEQ61	5396	795942	1 - 501	15 - 515	
HNHLEQ80	5397	775621	1 - 239	15 - 253	
HNHLEK73	5398	761855	1 - 404	15 - 418	
HNHLEK91	5399	789786	1 - 262	15 - 276	
					M62264, A1745473, AA338228, AW370286, AW238594, F29013, A1459798, AA627921, AA317224, AA599354, AA977307, T49213, AW404844, AL120183, AA365407, AA229984, A1367551, AA937618, R62701, AA654781, AA782306, AA338378, T48241, F02597, AL037533, AL079894, Z70758, AC004491, AC004688, AC004884, AC004596, AC004837, AC004928, AC005399, AC004019, AL096791, AC006468, AL109963, AL031133, AC016025, U91326, AC007053, AC002404, AC003010, AC006120, AL022163, AC005046, AL049778, AF045555, AC004268, AC006271, Z82206, AC004998, AP000045, AP000113, AC004859, AL049778, AF045555, AC004552, AC007276, AL022726, AP000045, AP000113, AL008582, AL031666, AC002531, AC007435, AC004106, AL031311, AF196779, AC004805, AL024507, AL035461, AF038458, AC005839, AC006057, AL021154, AC005907, AC002352, AL021808, AC007731, AC002994, AL109827, AL022400, AC005500, AC004881, AC007283, AC002563, AC004887, AC012627, AL031584, AL022316, Z99943, AP006889, AC008079, AL035684, Z98051, AL022476, AC005520, AC005291, AC004000, AC000052, AC002527, AC007225, AC006449, AL033525, Z93020, A1003147, AC005993, AC005879, AF013416, and AB003151.
HNHLS04	5400	927077	1 - 297	15 - 311	
HNHLS53	5401	827329	1 - 273	15 - 287	
HNHLT49	5402	784983	1 - 116	15 - 130	AL031258.
HNHLSV84	5403	782319	1 - 265	15 - 279	
HNHLSW93	5404	791782	1 - 489	15 - 503	AL096701.
HNHLSX82	5405	779298	1 - 327	15 - 341	
HNHLMC78	5406	772969	1 - 394	15 - 408	
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HNHMD85	5407	876673	1 - 355	15 - 369	AW020198, ALI473995, ALI886360, ALI073373, ALI039761, AW247338, AW243945, FI96443, ALI872117, ALI078754, ALI120282, ALI903090, AA525332, ALI288033, AC708263, R83585, AW301483, AA598605, ALI744933, AA513189, ALI188049, AC007386, AC004974, ALI13289, ALI077848, UR93335, AC007240, L35682, AC004966, AC007308, ALI049776, AC003101, AC004526, AP000692, AP000502, AF019413, AC004703, Z98200, AC003010, AC0006449, AC005262, Z94801, X82877, AC004927, Z85994, AF1188024, AC001053, AC005231, Z930323, ALI050307, AC005274, AP000432, AP000290, AC002295, ALI035420, AC007388, AC007537, AC005779, AC005514, ALI008710, ALI246003, AC004466, AF196972, AC004648, ALI121658, AC005036, ALI031281, ALI139054, ALI008582, AC005695, AC008132, ALI008734, ALI008726, AC005768, AC004884, AC004475, AC002301, AP000705, ALI049712, ALI031599, AC007736, AC003042, ALI109984, AF0330453, Z95115, AC005288, AF038458, AC004920, AC002315, AC004757, AF027390, AC007227, AC002045, AC002996, AC005378, AC005261, AF020042, AP000110, Z98036, AC002470, AC007542, AC005220, ALI031846, AF114847, AF107259, AP000466, AP000094, AP000239, Z93241, AC002463, ALI096773, AP000032, AP000104, U73634, Z85997, AC008033, U52112, AC006039, AC009247, AC003089, AC005400, AC005295, AC005666, AC006536, AC006210, AC005538, ALI035086, AC007686, AC005800, AF111169, ALI035659, AC004789, ALI035684, AC010205, AC006211, and AC011331.
HNHMD85	5407	876673	1 - 355	15 - 369	W58290, W58291, AA633629, AA633622, and Z60515.
HNHMD85	5408	784479	1 - 585	15 - 599	AL033521.
HNHMD93	5409	791798	1 - 342	15 - 356	
HNHMD94	5410	977056	1 - 408	15 - 422	
HNHMD93	5411	937561	1 - 350	15 - 364	
HNHMD73	5412	967614	1 - 636	15 - 650	
HNHMD77	5413	916609	1 - 392	15 - 406	
HNHMD73	5414	791807	1 - 428	15 - 442	
HNHMD73	5415	925689	1 - 378	15 - 392	
HNHMD754	5416	790765	1 - 271	15 - 285	
HNHMD790	5417	937564	1 - 245	15 - 259	
HNHMD91	5418	789783	1 - 150	15 - 164	
HNHMD93	5419	780558	1 - 245	15 - 259	
HNHMDX45	5420	953411	1 - 750	15 - 764	AC005105.
HNHMDX45	5421	859841	1 - 212	15 - 226	AC005828.
HNHMDY45	5422	958409	1 - 336	15 - 350	
HNHMDY59	5423	883324	1 - 388	15 - 402	
HNHMDY71	5424	761436	1 - 337	15 - 351	
HNHMD71	5425	952290	1 - 467	15 - 481	AG668485.
					T59562, T595116, H23893, H23894, AC000116, and AF147372.

HNHNMZ59	5426	761661	1 - 393	15 - 407	AL021026, and A91686.
HNHNMZ86	5427	784099	1 - 79	15 - 93	
HNHNMZ89	5428	786457	1 - 318	15 - 332	
HNHNA02	5429	918720	1 - 215	15 - 229	AL096774.
HNHNA69	5430	754452	1 - 148	15 - 162	AL035409.
HNHNB77	5431	771523	1 - 423	15 - 437	
HNHNC82	5432	779321	1 - 298	15 - 312	
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HNNH123	5447	968911	1 - 423
HNNH127	5448	970254	1 - 410
HNNH152	5449	859831	1 - 216
HNNH164	5450	859832	1 - 208
HNNH204	5451	927027	1 - 154
HNNH288	5452	959011	1 - 544
			15 - 437
			15 - 424
			15 - 230
			15 - 222
			15 - 168
			15 - 558
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HNHOA03	5453	923032	1 - 443	15 - 457	
HNHOC03	5454	922892	1 - 318	15 - 332	AP953346.
HNHOD01	5455	915341	1 - 548	15 - 562	
HNHOD62	5456	852995	1 - 378	15 - 392	
HNHOE53	5457	767329	1 - 619	15 - 633	
HNHOE03	5458	922028	1 - 482	15 - 496	AA311412.
HNHOF07	5459	952291	1 - 438	15 - 452	AA310235.
HNHOF92	5460	790034	1 - 623	15 - 637	
HNHOG384	5461	782316	1 - 540	15 - 554	
HNHOG386	5462	785004	1 - 558	15 - 572	AA663481.
HNHOH10	5463	963562	1 - 546	15 - 560	
HNHOH03	5464	923072	1 - 698	15 - 712	AA682500.
HNHOM92	5465	792328	1 - 358	15 - 372	AL031277.
HNHO016	5466	959616	1 - 1089	15 - 1103	H56490.
HNHO025	5467	859826	1 - 602	15 - 616	

HNHO074	5463	915462	1 - 492	15 - 506	AP000700, and AP000701.
HNHO087	5469	787562	1 - 407	15 - 421	
HNHOPI0	5470	963539	1 - 527	15 - 541	
HNHOQ16	5471	767877	1 - 414	15 - 428	
HNHOS70	5472	756593	1 - 342	15 - 356	
HNHOS75	5473	766736	1 - 365	15 - 379	
HNHOT10	5474	963631	1 - 305	15 - 319	
HNHOT11	5475	923065	1 - 470	15 - 484	
HNHOT95	5476	795331	1 - 86	15 - 100	AF064861.
HNHOU20	5477	773797	1 - 364	15 - 378	U91319.
HNHOU68	5478	806090	1 - 449	15 - 463	
HNHOU94	5479	793514	1 - 352	15 - 366	
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HNHOX09	5480	854882	1 - 691	15 - 705	AA179093, W05670, H75806, AI137564, and AB028998.
HNHOX10	5481	963545	1 - 509	15 - 523	

HNHOX31	5482	859820	1 - 509	15 - 523	
HNHOX89	5483	786411	1 - 504	15 - 518	
HNHOZ04	5484	923013	1 - 374	15 - 388	
HNHOZ90	5485	787488	1 - 644	15 - 658	
HNHPC08	5486	952246	1 - 360	15 - 374	Z56336.
HNHPC36	5487	859819	1 - 452	15 - 466	
HNHPC72	5488	772970	1 - 348	15 - 362	AA421740.
HNHPD04	5489	974103	1 - 489	15 - 503	
HNHPD07	5490	952244	1 - 520	15 - 534	
HNHPD13	5491	859815	1 - 480	15 - 494	AC005828.
HNHPD86	5492	784919	1 - 701	15 - 715	AA928156.
HNHPC61	5493	784432	1 - 516	15 - 530	AL041914, AA262042, R14254, AL041237, F13514, and AL133057.
HNHPC66	5494	859812	1 - 882	15 - 896	N7074, A1804923, AA934526, A1992261, AW140138, W88993, A1077351, A1793312, C06015, D80164, D80195, D51022, D59502, D80038, D801026, D80247, D59467, D59275, C14389, D80227, D58283, D80133, C15076, D80439, D80022, D80391, D59787, D80269, D80166, D80193, D59619, D80210, D80240, D80045, D50979, D59839, C14331, AA303409, AA305578, D51423, D51799, D80253, D80043, C14014, D81030, D59889, D80196, D80212, D80219, D80268, D80366, D80188, D80522, D50995, D59927, D80157, T03116, D57483, A1525923, AA809122, D45260, H67866, C03092, AW177440, AW178893, D58246, D80251, D59551, D59503, D80238, A1525917, T11417, AW375405, F13647, D59317, A360811, A152235, H67854, A1535686, A1525215, A1525920, AW360817, AW360834, C14227, D59627, C14973, A152527, D80064, D80014, AW178906, T03269, AW179328, T48593, AW375406, AW378534, A1525925, AW179332, AW377672, AW179023, AW178905, AW177731, AW378528, AW178762, AW179019, A1525242, AW378533, AW378532, AA514184, A1557774, A1525912, AW377676, D59695, AW178907, AW178908, A1525237, D45273, Z21582, AW178914, AW178774, AA285331, A1537751, AW367950, D80168, C16955, AW378542, Z33452, T02974, D52291, AW378525, AW352163, C14298, A1525239, D51213, T03048, A1525228, D31458, A1525216, A1525238, A1525969, A1525903, AF058696, A82595, AB028839, A1312110, AR060385, AR008278, A84916, AB002449, A62300, A62298, AR018138, I14842, I50126, I50132, I50128, I50133, AR054175, AR016691, AR016690, U46128, AR016514, A26615, Y17187, AR060138, A45456, Y17188, A94995, D26022, AR008277, AR008281, A26615, AR052274, A43192, Y12724, A63261, A43190, AR038669, A25909, AR066488, Y09669, AR066487, A70867, A67220, D89785, A78862, D34614, A30438, AR062872, AR008443, I79511, A64136, A68321, D88547, D50010, I82448, X68127, AR016808, X82626, AR025207, and AR060133.
HNHPC85	5495	783821	1 - 395	15 - 409	D80022, D80195, C06015, D80302, AA809122, A1525237, H67866, D58246, D80247, D81026,

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HNHPH29	5496	934456	1 - 486	15 - 500		
HOIAE91	5497	935322	1 - 548	15 - 562		AW450671, AA936632, AA373754, AW301553, A4887804, and AA523682.
HPSAA31	5498	739041	1 - 563	15 - 577		AA371521, and AA371570.
HPSAA50	5499	723558	1 - 299	15 - 313		AA371530, AA371532, AA283143, and AA4985190.
HPSAA63	5500	536776	1 - 316	15 - 330		AA371537, AA371640, and AA371643.
HPSAB25	5501	677474	1 - 321	15 - 335		AA371618, AA371540, AA652942, AC005365, and AL080317.
HISAT03	5502	925082	1 - 309	15 - 323		
HISAT03	5503	683251	1 - 505	15 - 519		
HISAT03	5504	666207	1 - 391	15 - 405		H64038, and W04139.
HISAT03	5505	531280	1 - 392	15 - 406		AA916748.
HISAT03	5506	907593	1 - 328	15 - 342		A1568725, and AW084480.
HISAT03	5507	781718	1 - 233	15 - 247		
HISAT03	5508	716434	1 - 654	15 - 668		R81464.
HISAT03	5509	781405	1 - 380	15 - 394		N99795.
HISAT03	5510	688006	1 - 439	15 - 453		AC003689.
HISAT03	5511	677717	1 - 445	15 - 459		AC000119.
HISAT03	5512	866951	1 - 365	15 - 379		H58978.
HISAT03	5513	765376	1 - 569	15 - 583		AW022615, N51894, and D62269.
HISAT03	5514	888871	1 - 437	15 - 451		A1111779, and AF090944.
HISAT03	5515	713143	1 - 168	15 - 182		D63189.
HISAT03	5516	699586	1 - 609	15 - 623		AW401775.

HSATR76	5517	65994	1 - 488	15 - 502	HS5088.
HSATS23	5518	524369	1 - 288	15 - 302	AA502450, AI590404, AI278972, AI251024, AW028376, AW273201, AW273146, AA613761, AW28341, AW104163, F31670, AA338474, AA936099, AA364082, M77908, AA467740, AW023515, AW407679, AW409626, H92442, AI318548, AI567676, AA342029, AI344906, AI885134, AI754257, AA937618, AI445699, AA468135, AA533011, AA812133, AI053673, AW080118, AI434103, AW277125, AA219166, AA382171, AA745395, AA745336, AI572680, T34066, AA364199, AW149241, AA847340, AW707430, AI281622, AA570243, AI884404, AA707438, AW704592, AW707446, AI358557, AI032411, AI734119, AA489897, AA640305, AI370470, F25183, AA503459, AA668421, T03576, AI732720, AA300049, AA975894, AI558404, AA676462, AA730795, AA668148, AI003086, AA658890, AA468921, AI732327, AA487053, AI701898, AA303002, R95751, AW157424, AA172103, AI702049, AA846014, AW069110, AA328535, H51612, AA055647, AW265468, AI590442, AA309287, R33053, AI960990, AI138262, AA847341, AW148821, AI619727, AA663579, AI207744, AW192930, AA610644, AA365049, R12500, AA147521, AA362670, AW021674, H47554, X84712, AW410844, AA829565, AA421536, AA991640, AW406139, AA657392, AW238242, AW409621, AI064968, AA829086, AA350081, AT744963, AI7468079, AI521019, AI037723, AW307722, AI719372, AA984891, AI268818, Y18000, AC004882, AC005529, AP000493, U02057, AC004531, AP000689, AI049872, AC004999, AI034417, U91326, AC002544, AC005300, AC005756, AB003151, AI050318, AC005535, Z69366, AC005015, AC006449, AC004263, AC005409, AI132716, AF196972, AC005914, AC005695, Z83844, AI033086, AI049694, U07000, AC005319, AC006241, AC004887, AC002036, AI050307, AC004859, AI031697, AC007536, AC007537, AI008731, AI022316, AC004386, AC006077, AB025285, AI0316913, AI020995, AF154840, L81576, AC004223, AC005325, AC002558, AI021391, AC007993, Z98256, AD000092, AI008710, AI109628, AI133448, AC004125, AB033024, AP000884, AC005412, AC006511, AC006057, AC005159, AC007227, AC007040, AC008372, AC004797, AI080233, AC005755, AC005839, AC004668, AC004770, AC004972, AC007036, AC002045, AC005565, AI049761, U89337, AC004674, AC005370, Z99716, AC007690, AI031680, AC004997, AI172528, AC007421, AC007387, AF11198, Z82208, AI121603, U32112, AC004968, AC004526, AC006360, AI050347, X02571, M12901, A91683, AC007564, AC003042, AC012085, AI132712, AC005331, AC004653, AC005335, AC005684, AI022165, AF001550, AC005385, AI049643, AC005067, AC004033, Z82198, AC007193, AI033524, AC005921, AB023051, Z97630, AC004890, AI023880, AC004228, AC002418, AC005284, AC002991, AC004896, AC005702, AI031295, AI021578, AI049869, AF000352, AC004233, AI035413, AF091512, AC006487, AC005500, AP000211, AP000133, AP000039, AP000107, AI121655, AP000547, AC002107, Z95116, AC000134, Z69374, AC003012, AC002997, AE000638, AI031587, AF111168, Z98051, AI033652, AC005211, AC004950, AC004975, AI049776, AP000502, AC006254, AI031311, AC006137, AC002492, Z93017, AC004560, AC006088,



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HSAT529	5519	689823	1 - 331	15 - 345	AC005799.
HSAT556	5520	732640	1 - 356	15 - 370	
HSAT596	5521	796565	1 - 409	15 - 423	
HSATV34	5522	732184	1 - 447	15 - 461	
HSATW22	5523	531171	1 - 316	15 - 330	
HSATX46	5524	866959	1 - 239	15 - 253	AW166467, AL150813, AL051055, AW291572, AA186962, AL041305, R99223, AL028763, AL291690, AL692187, AL040743, AA489560, R99224, AB014596, AF176022, AP000252, AP000134, AP000212, and AP000031.
HSAAU88	5525	757624	1 - 361	15 - 375	Z82206.
HSUAUB19	5526	954055	1 - 227	15 - 241	
HSUAUB90	5527	733714	1 - 117	15 - 131	AA480803, T24642, and AC004706.
HSUAUD05	5528	932502	1 - 249	15 - 263	
HSUAUD45	5529	531170	1 - 511	15 - 525	
HSUAUE23	5530	571385	1 - 163	15 - 177	
HSUAUE40	5531	866933	1 - 392	15 - 406	
HSUAUF18	5532	527038	1 - 384	15 - 398	AA479823.
HSUAUG15	5533	953628	1 - 907	15 - 921	AT700608, AL475748, AA261852, H43976, AA455641, AL435512, AA878284, AA721182, AA526613, AW073756, D56003, AW239128, AA367190, AW175589, AA248657, AA336678, AW402312, AA113904, and AL049610.
HSUAUH65	5534	953873	1 - 357	15 - 371	
HSUAUH69	5535	870437	1 - 971	15 - 985	N33174, AL333084, AA810196, AA810519, AA417898, N25355, N44958, N31476, AA491035, and AA745500.
HSUAU05	5536	856886	1 - 412	15 - 426	AL000925, AL261943, AA614341, AW376738, AL000930, AW136154, AA209435, AC005694, AC005527, AC005529, and AC002991.
HSUAU26	5537	950714	1 - 426	15 - 440	
HSUAU67	5538	866919	1 - 368	15 - 382	

HSALQ94	5539	526936	1 - 461	15 - 475	
HSALQ94	5540	557848	1 - 151	15 - 165	AC004975.
HSALUW10	5541	967600	1 - 428	15 - 442	
HSALUW71	5542	537544	1 - 262	15 - 276	FI3740, and AI913247.
HSALUJ28	5543	744899	1 - 666	15 - 680	R98418.
HSALUJ27	5544	685253	1 - 693	15 - 707	
HSALV44	5545	866900	1 - 198	15 - 212	AC003102, 297635, AC008126, and AC005856.
HSALV46	5546	742073	1 - 174	15 - 188	AA907167, AA910829, AA98986, AA903887, AA825361, AA045623, AI222950, AI215879, AI870657, AA902506, and AA916305.
HSALV805	5547	932496	1 - 297	15 - 311	
HSALV819	5548	866899	1 - 308	15 - 322	H80879, R69751, H80878, R70467, AC004985, and AL022158.
HSALV841	5549	584978	1 - 255	15 - 269	
HSALV876	5550	967286	1 - 311	15 - 325	
HSALV835	5551	932462	1 - 264	15 - 278	
HSALV881	5552	959949	1 - 574	15 - 588	
HSALV817	5553	417452	1 - 188	15 - 202	AI637636, AW082668, T94015, AI332352, AA847421, AI565225, T93337, and AF115510.
HSALV895	5554	574243	1 - 564	15 - 578	AC005189, and AC005532.
HSALV144	5555	715837	1 - 460	15 - 474	AA481619, W88558, AA455714, AA455659, and AA481553.
HSALV146	5556	717837	1 - 448	15 - 462	AW021987, and AC004056.
HSALV159	5557	579060	1 - 364	15 - 378	
HSALV177	5558	739521	1 - 335	15 - 349	
HSALV143	5559	714418	1 - 584	15 - 598	T95438, AA004549, T95461, T95342, T95342, R01904, R01953, T95357, and AA704164.
HSALV807	5560	935797	1 - 221	15 - 235	AA731064, AW450807, AA513079, AA602113, AA503400, F36001, AA658915, AA844750, F24885, AI929819, T89864, F34389, AI748847, AI832751, F21165, AI929660, AA632963, F36287, F28779, F37620, AA627162, C00120, AP000046, AP000114, AP000303, AF193597, AF193607, AF161428, and AF161430.
HSALV817	5561	920412	1 - 416	15 - 430	AC006468.
HSALV837	5562	574709	1 - 339	15 - 353	
HSALV853	5563	531111	1 - 235	15 - 249	
HSALV882	5564	531398	1 - 118	15 - 132	
HSALV810	5565	964950	1 - 402	15 - 416	
HSALV846	5566	574784	1 - 314	15 - 328	AW104664.
HSALV856	5567	522431	1 - 430	15 - 444	AI299938, and AI109798.
HSALV806	5568	936049	1 - 87	15 - 101	
HSALV874	5569	827090	1 - 213	15 - 227	
HSALV817	5570	574269	1 - 112	15 - 126	

[illegible]

HSAYV76	5572	866888	1 - 81	15 - 95	AL049780, U95739, AL009181, U95742, AC004771, AC006530, Z81364, AC000082, AC007842, AC005206, AL024498, AP000337, AC021092, AC002375, AC005568, U58668, Z85986, AL031291, AC005914, AB0003151, AC007681, AC005355, AL031846, AL031311, AB012286, AC002429, AC031650, AC004999, AL031775, AC004148, AC002059, AC005952, AC004381, AL139054, D86995, U95740, AL034402, AC005484, Z84476, AL031282, AC004491, AC003002, AL139059, AL050332, AP000505, Z95113, AC006597, AC002395, AL023553, AF051976, AL022327, AL022476, AL03572, AP005112, AC007536, AL050331, AC004913, Z82206, AC005620, AL031447, Y10196, AC006511, AC006071, AC005531, AL049760, and AC005523.
HSAYV77	5573	920565	1 - 314	13 - 328	AW058430, W21392, AW079237, AW376931, H96580, M86143, AL109839, Z93016, AC009509, AC005519, AC004000, AC005532, X74962, AL031657, and AC004003.
HSAYV78	5574	577549	1 - 645	15 - 659	AL304948, and AC006430.
HSAYV79	5575	925582	1 - 220	15 - 234	AA828835.
HSAYV80	5576	967490	1 - 130	15 - 144	
HSAYV81	5577	970695	1 - 453	15 - 467	
HSAYV82	5578	974267	1 - 443	15 - 457	
HSAYV83	5579	744614	1 - 636	15 - 650	
HSAYV84	5580	574287	1 - 350	15 - 364	
HSAYV85	5581	526958	1 - 295	15 - 309	
HSAYV86	5582	842039	1 - 365	15 - 379	AA297496, AA302682, AA805018, AL904944, AL369076, AA302660, R08161, AL1915081, AL054090, AL246061, AL713705, AA326452, AW021007, AA226770, AW069412, H02532, AA862029, AW265688, F17537, H71678, AA586433, AL249853, AA225795, AA744095, AL048275, AL536834, AA493789, AA744423, H53217, AW272740, T83057, AA599199, AL754170, AA156147, AL635609, AL064786, AL076418, AA864426, AL284543, AA373861, AL254770, AA626595, AW169035, AL251034, AA381787, AA904211, F00564, N94342, AA095721, AL250552, AA056248, AA356604, N29936, AL270047, W24312, R35259, AA313219, AA282219, AA148197, AA834807, AA302978, AW192648, AL039801, AA503018, AA831801, AL866971, AL251203, AL475724, AL251284, AA668166, AA714073, AA683069, AA654778, AA857812, AL312090, AA525807, AL312784, AA702717, N73060, AL121782, AP000692, AC000025, AC005856, AL096763, Z85987, AC006511, AC005702, X87344, AL049835, AC006312, AL022721, AC006960, AC005527, Z98941, AL049780, AL139054, AL034549, AC006010, AP000555, L34294, AC006241, AC007073, AL035420, AC005529, AL035072, AL109628, AP001318, AC004448, AC007731, AC005500, AC004019, AF064861, AF111168, AC002394, AC005602, M87889, AL031680, AC001267, AC004985, AC004000, AL109839, AC007199, AC004832, U95743, AC004834, AC005823, AC004531, AC005868, AC007201, AL132642, AC004655, AC002470, AL132777, AC005829, U02051, AC006234, AC003109, AC003025, AC006057, Z95704, AL022320, AF139813, AC007637, AC006115, AC005527,

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HSAV265	5583	574192	1 - 314	15 - 328	
HSAWA25	5584	577281	1 - 307	15 - 321	AA505186.
HSAWC89	5585	785988	1 - 926	15 - 940	AA134230, AL1977676, AF168132, and AL080140.
HSAWG75	5586	574223	1 - 148	15 - 162	
HSAWH47	5587	720535	1 - 551	15 - 565	TS6672.
HSAWI18	5588	666842	1 - 325	15 - 339	
HSAWI50	5589	742713	1 - 372	15 - 386	AC003681, AP000952, and AC008124.
HSAWI36	5590	866874	1 - 911	15 - 925	AB035717, AL038558, B73057, AW450490, AW235225, AL650526, AL633900, AL693578, AA78147, AL252617, AF758094, AF077118, R73058, and AL344281.
HSAW793	5591	751429	1 - 171	15 - 185	AP000150, AP000009, and D83253.
HSAWI80	5592	792893	1 - 310	15 - 324	H67030, H68111, AL1358229, AW406755, AL365988, F29989, AA501614, AA657835, AA525153, AW023111, AL278972, AA720732, AA176605, AA659535, AA579053, AW168433, AA634786, AA551798, AA573020, AA715814, AL241976, AA827960, AA579184, AL136829, AL358089, AA574286, AA438643, AL689019, AL275183, AA778140, AA772016, T29180, U18399, U67822, U67823, AC007298, AC007312, X55922, AP000692, S48196, AL133245, U85195, AC005338, AB006658, D87008, L81893, D88268, AC004921, AL133289, AC005620, AC004167, AC001066,
HSAW67	5593	883825	1 - 652	15 - 666	

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HSAW191	5594	522474	1 - 241	15 - 255	
HSAW196	5595	577267	1 - 436	15 - 450	
HSAWY18	5596	666841	1 - 138	15 - 152	AA835667, and AL936498.
HSAWY11	5597	967489	1 - 494	15 - 508	
HSAXB47	5598	720536	1 - 795	15 - 809	
HSAXB84	5599	574172	1 - 402	15 - 416	
HSAXB95	5600	796006	1 - 316	15 - 330	
HSAXC60	5601	579044	1 - 401	15 - 415	F28958, F37192, and F00608.
HSAXD03	5602	924900	1 - 241	15 - 255	
HSAXD08	5603	959939	1 - 369	15 - 383	
HSAXD18	5604	575543	1 - 126	15 - 140	AL109628.
HSAXD73	5605	574274	1 - 383	15 - 397	R63784.
HSAXD75	5606	526777	1 - 339	15 - 353	AC004675, and AF088219.
HSAXF03	5607	924899	1 - 280	15 - 294	AA281106, and AC005488.
HSAXG18	5608	574165	1 - 375	15 - 389	T07213, AA483211, AL689564, AL046171, H81283, F35659, AA604326, AA446474, AA443065, AW086465, AA027637, AA593359, N55273, AA605274, AL131366, AW168433, AA610420, H57381, R53899, AA863453, AA640739, R77158, AW238016, AW238278, T69435, R79157,

				<p>             ALD00051, AL822577, W35195, AA166835, W23546, AA630030, T71030, AL672135, AA931647, F23325, AL141675, AL049616, AL561335, AL860020, AA703891, N66684, H81505, AW270284, AF770072, AA834712, AL020729, AA357552, AL084624, AL880168, AA242863, AL352078, AT758852, AA538227, AW169687, AA557854, AL349874, T94866, AA937686, F26152, T55236, AW406659, AA678443, AA346454, AA663306, T94116, AL345522, AA658235, AL683294, AA587662, AL801591, AA342681, AL344844, AA640053, T71198, AL298977, AL252141, AL251111, H77751, AA515224, AA52406, AA581903, Z85986, AC007207, AC002551, AP000688, AL035668, AL031393, AC004854, U91325, AB000880, AC004967, AC002369, AC005081, AC007298, AC005799, AL022476, AF045555, AC006031, AP000507, AC005839, U20210, AL031284, AC007114, AL021407, AB000882, AC004896, Z83844, AC006480, L78833, AL021453, AC007110, AC004895, AC007358, AC004655, AC004841, AL023284, AF109907, AC005911, AC005089, AC004941, AL031428, AP000008, AC004894, AL031432, AC005243, AP000704, AC005274, AC005619, AL008634, AP000014, Z97198, AC005377, AC005881, AP000556, AL035079, AL031577, AL031643, AC009300, AL110122, AL050348, AC005874, AF134471, AC005913, AC006076, AC006333, AL121825, Z84718, AF002223, U95626, AF044083, AC005280, AC005922, AL022069, AP000245, U89335, AC004531, AC035682, AL031683, AL021397, AJ006995, AC004659, AF033356, AF124731, AC004776, AC004972, AC018769, AC000120, AB020859, AC008033, AC006241, AC005072, AC006989, AL022396, AL133382, Z84497, AP000657, AL031120, AC009241, AC0015831, AC006287, AC006285, AP000966, AC006958, AC005562, AC005822, AC006075, AC006039, AC004931, AB028898, AC002087, AC005703, AL022328, AC004467, AP000449, Z92540, AC011592, and AC008072, AL008582, AL049844, AL049650, AC002300, AL022165, AL024498, AL021391, and AC005484.           </p>
HSAXG30	5609	574280	1 - 456	15 - 470
HSAX107	5610	953871	1 - 236	15 - 250
HSAX147	5611	574159	1 - 444	15 - 458

					AC005924, AC005409, AC002395, AC008062, AC006211, AP000503, AC005666, Z81364, AP001549, AC008041, AC005971, AL022318, AC004815, AP000211, AP000133, AC005346, AC006480, AL133448, AP000557, AL109984, AL022312, Z95116, AC004035, AC005362, AC006088, AL117355, AC005537, AC000353, AC004938, AF053356, U07561, AB020865, AC006312, AC006597, AL118516, Z49155, Z97056, AC005089, AC004796, AC004963, AL035071, AC005159, AC007207, AC005280, AC002425, AL049872, AB032988, AC004448, AC005153, AP000962, AL035072, L31948, Z97184, Z83840, Z98052, AC012085, AC007666, AC002401, AC005575, AP000049, AL022323, AC007371, AC003025, AC003048, AL079340, AL121658, AC006755, AL034553, AP000311, AC000052, AP000362, AC005049, AC005300, Z82212, AL022165, AC007193, AL033376, AC005589, U63721, AP000692, AC002094, Z93244, AC004084, AF139813, AC015853, AC002310, AL031659, AC005031, AC008101, AC004895, AL078581, AC005484, AC005943, AC006515, AC003071, AC003071, AP000481, AL021579, AL035454, AL035443, AC007546, AC016027, AF067844, AP000359, AC007793, AC016830, Z93017, AC004999, AL049759, U51561, AC0001643, AF016898, AC004228, AC005730, AL050350, AC002319, AL022238, AC006077, U07562, L81394, AC010205, X99832, Z84466, AC004967, AC007286, AC010170, AL022328, AP000044, AL096712, AB023048, AC005570, AL031737, AC004858, AF109907, AC000029, AL049569, AC005588, AF001550, Z99127, AL049653, AC002551, AC006958, AL008726, AL035445, Z97053, AC001226, Z95987, Z97054, AC005516, AC002126, AC005182, AC002470, AC004805, U91327, AP000031, U73109, and AB001523.
HSAX162	5612	531114	1 - 411	15 - 425	
HSAX1725	5613	964753	1 - 228	15 - 242	T98562, and AL031778.
HSAX183	5614	866840	1 - 350	15 - 364	AC005971.
HSAXM33	5615	866837	1 - 368	15 - 382	
HSAXM34	5616	526939	1 - 242	15 - 256	AC003007, and AC005632.
HSAXM44	5617	574173	1 - 316	15 - 330	
HSAXM68	5618	754061	1 - 310	15 - 324	
HSAXM91	5619	784470	1 - 229	15 - 243	AC004815.
HSAXO52	5621	726053	1 - 585	15 - 599	
HSAXO53	5622	727491	1 - 309	15 - 323	AA866609.
HSAXO65	5623	713784	1 - 244	15 - 258	AW009820, and AA568195.
HSAXO91	5624	725673	1 - 325	15 - 339	AC002331, AL034350, and AL033397.
HSAXR08	5625	959441	1 - 662	15 - 676	
HSAXR83	5626	866831	1 - 430	15 - 444	T78958, AA555594, T78906, and AL021453.
HSAXS44	5627	715896	1 - 327	15 - 341	AW294886.



HSA YA60	5628	650857	1 - 356	15 - 370	AL393338, AW241990, T92033, AA826386, B92152, AA665661, AA137025, AA334089, AA071151, R00203, AA757621, AL138252, AF207550, AL031984, AC005081, Z81367, Z95115, AC008124, AL031291, AC004491, AC005529, AC002350, AL035685, AC004882, AC005622, AC005015, AL049576, AC006001, X86011, AC006515, AC004382, AL049569, U89335, Y10196, AC005011, AC008044, AF196971, AL022316, AL031846, AF001348, AL031864, U91326, AF000493, AC006449, AC005618, AC003041, AL133304, AL031283, AC004536, AC007240, Z97632, and AC003010.
HSA YA80	5629	751139	1 - 620	15 - 634	AL031733.
HSA YA95	5630	856883	1 - 406	15 - 420	
HSA YC17	5631	663910	1 - 590	15 - 604	AF062359, and AC004049.
HSA YC39	5632	705409	1 - 362	15 - 376	
HSA YC34	5633	723425	1 - 425	15 - 439	R31954, R10634, and AW195428.
HSA YG62	5634	745692	1 - 390	15 - 404	
HSA YH09	5635	971427	1 - 613	15 - 627	AC003663.
HSA YH38	5636	731434	1 - 737	15 - 751	AH31434, AW162288, F13749, AL696793, AL245693, AL537538, AA284247, AL119691, N69462, AA176605, T06207, AA720732, AW304580, AW408767, AA486877, AA937427, AA524616, AA879053, AL866911, AL046746, N24909, AA448838, AT751162, AA493226, N22058, AW270258, AA587991, AL040051, AA806796, Z79422, U67810, Z30979, AC007040, AL031848, Z22650, AL049872, X55931, AL031282, U57005, AC002347, X74558, Z97206, AC006130, AC005786, AC005089, AC006241, AC006441, AL133382, AL033322, AC002301, Z83844, AC007845, AC000159, AC000880, AC004854, AC004835, AC004821, AL096701, AL031228, AL034420, AC003110, AC016025, AC006273, AC007242, AL135783, AC004019, Z94044, Z85986, AL049780, AC005280, AC007435, AL049869, AL133243, Z83826, AC000025, AC005527, AL024498, AL135744, AC004263, Z69917, AC000118, AC004974, AC004526, AC002544, AF109907, AL121658, AC002554, Z85987, AC004067, AC006312, AC005696, AC005663, AL139054, AC002369, AC005486, AC002404, AC002425, AL034423, AL122020, AC005778, AC006120, Z30994, AC004598, AC002395, Z84487, AL096791, AC0005921, AB026906, AC005348, AC005920, AC006160, AC016831, AL031686, AL746003, AC005209, AC005940, AP000503, AL031311, AL050312, AC005071, AL133448, AL031255, AC009044, AL022336, AC007057, M63796, Z93023, AC005288, AL080243, AC006064, AC004499, AC002350, AL008582, AL035587, AC007226, AC005529, AC005939, AC005225, AC004257, AL008635, AC002455, AC003029, AP011930, U63721, AL022238, AL049830, AF0045533, AL022318, AC004752, AC006001, AC004601, Z83851, AC007388, AL109984, AC005722, AC006211, AC000052, AC0007731, AC005684, AL035361, AC005954, AF134726, AF001549, AB000882, AL034402, AC005500, AP000509, AF205588, AC005179, AC005387, AC004834, AC003042, U63630, AC004449, AL035652, Z95114, AC005632, AC007308, AC006126, AC000773, AC003109, AF129756, AC016026, AC004791, AF064864, AC004647, AC004890,

HSAYK03	5637	881282	1 - 430	15 - 444	AC003982, AP000506, AC005520, Z98048, AL031276, AC005899, Z82179, AC004815, and AL049694.
HSAYK26	5638	681730	1 - 343	15 - 357	AL049569.
HSAYK79	5639	690056	1 - 356	15 - 370	
HSAYL46	5640	720352	1 - 593	15 - 607	
HSAYL64	5641	763847	1 - 346	15 - 360	AL0797238, and W85776.
HSAYL72	5642	951025	1 - 267	15 - 281	
HSAYL93	5643	920778	1 - 336	15 - 350	AL031657.
HSAYM75	5644	719241	1 - 351	15 - 365	
HSAYM91	5645	950486	1 - 362	15 - 376	
HSAYN79	5646	471037	1 - 665	15 - 679	
HSAYO71	5647	745703	1 - 339	15 - 353	
HSAYR35	5648	673897	1 - 212	15 - 226	
HSAYS26	5649	681725	1 - 372	15 - 386	D83781. AL824918, C14298, D51213, D80168, D80949, D59627, D51079, D80064, D59695, D81111, D52291, D59484, D58246, D45273, D80228, C16955, T03048, D80219, C14407, D59619, C14227, D80210, D80240, D59503, D80290, AW360780, D80258, D80014, D81030, D80212, D58101, D80439, D57483, D59889, D59653, D80195, T11417, C15076, D80251, AL535686, D80166, D80188, AW377669, AA305409, Z33452, D59859, D59610, AL557774, D80366, D80196, D51423, AW352172, D51799, D80253, C14389, D80024, D80247, D80045, C14077, D52059, AA305578, D80269, D80022, D58283, D51022, AL557751, D80391, D80164, D50979, D59787, D59502, D50995, C14331, D59467, D59275, D80043, D80227, D80241, D80133, D80157, D59027, D81026, D80302, D80038, H67866, D80193, AA314184, T02974, H67854, C14014, D51060, D51053, AA314186, AW377661, D80378, D80268, D80248, C05763, AL525216, C06015, AA314188, AL525228, D51103, C05695, Z21582, D51221, D80522, C75259, C14973, F13647, AA809122, D59511, C03092, D59474, AL525238, C04682, N66429, C14344, D51759, Z30160, D59373, D59317, AL525215, AL525222, C14957, D45260, T03116, C14046, AL525912, AL525969, H67858, AL525235, AL525920, T02868, C13958, D60010, AL525242, AL535961, D31458, AL525239, D50981, AL525227, F13796, AL525923, AL525978, AL525219, AL525237, AL525903, AL525925, AR016808, X64588, AB010386, A62298, AR018138, A84916, A62300, AJ132110, AR008278, AF058696, AB019943, U37689, A82595, J81198, AB028859, AB002449, A47134, AF060383, L14842, AR008277, AR000281, I79511, AR054175, and X72738. AA256081, AA594396, and AL035684. AL809688, and AC007201.
HSAYS54	5650	730688	1 - 569	15 - 583	
HSAYW12	5651	856909	1 - 391	15 - 405	
HSAYW75	5652	866818	1 - 290	15 - 304	
HSAZC11	5653	964994	1 - 343	15 - 357	

HSAZC18	5654	666442	1 - 362	15 - 376	<p>H92704, H94751, AA070456, B97658, AA465689, AA587113, Z85988, Z82188, AP000466, AL035461, U73641, AC005057, AC005484, AC004797, Z92709, AC005549, AP000501, Z84466, AL096791, Z98304, AP000155, Z88164, AC005370, AC005746, AF001549, AC007023, AC007637, AC004596, AL109798, Z82172, AC004253, AL035249, Z94044, Z98946, AF064483, AF064484, AL031774, AF067844, AL109627, AC002314, AC006077, AP000124, AP000171, AP000056, AP000331, AL109628, AP000193, AP000033, Z82194, and AC000122, AP000269, AP000032, and AP000103.</p>
HSAZC33	5655	702423	1 - 355	15 - 369	AC007269.
HSAZC41	5656	712326	1 - 334	15 - 348	AA601919, AW130614, AA653964, AA828680, AA551509, AA775416, W07032, AL372413, AA428414, AA593060, AA663634, AA723017, F26152, T28550, AL252207, AL510838, AA658235, AA828704, AA344959, AA694227, N43757, AA486680, AL284684, AA365347, T52732, AA450199, CL9058, AA320748, AA921649, AA310138, AL376100, AA365347, AA654855, AA301813, AA301600, AL254153, AL453383, AW074059, AL356904, AL564284, AW304531, AA326441, AL547286, AL922654, AA989126, AA776936, AW247132, AL216799, AA776921, AL270149, AA465321, AA372875, AL378729, AL037554, AL079667, AA372106, AL251949, CL17838, AL037910, AL254626, AL251996, AL252979, AL254937, AA828984, AL254440, N70442, AL254798, AA669634, AW269639, AL252112, T47348, AW086251, AL252828, AA639326, AL857261, AA984111, AL251380, AL251298, AL251598, AL501738, AL252933, AL254658, AL223508, AA535661, AL241970, AL254673, AA083136, AW086334, H58672, AA353595, AL251976, AA632612, AL270343, AL251968, AA584749, AW086356, AW086335, AL133348, AL031587, AC004230, AL049613, X03272, AC011604, AL109798, AL049830, AC002073, AC006064, L42240, AC006128, AL079340, AL031736, AL017874, X98288, AB017602, AC005703, AC005516, AC006141, AB016897, AC002286, AC002124, AP000359, AP000692, AL121603, AL002227, Z73338, AP000310, Z99755, M62424, AL025392, AF131217, AL035681, AL021579, AC005911, AL035684, AL109984, AC004858, AC006165, AL035413, AC004841, U61177, U66059, AC005736, AC006277, Z15025, AC002041, AL006995, AL008638, AC006449, AC0055215, AC004741, AC007688, AC004817, AF190465, U95740, AL109939, AC004383, AC0050571, D00591, AF109907, AC004647, AP000116, AL031722, AC005533, U47924, AC016026, AC005251, AC000392, AC004941, AC005358, AC004010, AL121934, AC004907, AC005971, AP000553, AC0009516, AC006312, AL031846, AL109799, AL049757, U73641, AC004098, AC000095, Z82182, AL035464, AC004990, AL021918, AL079295, AP000252, AC006464, Z82190, AC003977, AL049776, AB023051, AL031178, AC004712, AC006490, AC004895, AC004685, AC006455, AC006285, AP0000212, AC005356, AC009300, Z98884, AC004478, AC006241, AC005701, Z97352, U96409, AL009031, Z98950, AL021546, AC006116, AC002326, AF124731, AL1008629, AF064861, AC005838, AP000512, AC004814, Z86061, AC005368, AC006538, AL022320, AC005565, Z75890, AC003003, AC002527, AC000353, AC005288, AC006084, AC005837, AP001038, AP001040, AP000141,
HSAZC69	5657	757577	1 - 217	15 - 231	

HSAC70	5658	866814	1 - 224	15 - 238	AP000089, AC005829, AC007848, AL133312, AC003112, AL050308, AL022718, AC006999, AL117694, AP000555, AP001067, AC005866, AC000134, AP045999, AC005595, AC004592, AP000947, AL132766, AL031282, U95742, AC007216, AC005696, AP000008, AL121655, AP000275, AL031120, AL033376, Z99716, AC002238, AL000704, AF017257, AC005320, Z85986, AL020993, AL049829, AC004213, AL000115, AF006752, AC010175, Z99774, AC007066, AL023281, AL121576, Z95114, AP000115, AF006752, AC010175, Z99774, AC007066, AL031432, AL034429, AL031283, AL049759, AF094481, AC000003, D87675, AL031054, AC003695, AC004066, AC007285, AL031284, AL049610, AC004750, and AP000355.
HSAC72	5659	509611	1 - 352	15 - 366	AW170254, AA329068, H85372, T85640, M85706, T05004, D832407, and AL042605.
HSAC91	5660	790196	1 - 313	15 - 327	AA460367, T34066, AL010488, AA632869, AL060630, AL823533, AL823535, AA837325, T10218, AL038977, AA363957, AW070476, AL613623, AL281401, AA748102, T05617, AA8357911, D82321, AL078409, AW169414, AL312424, AA525332, AL79978, AL292317, AC008928, AC008124, AC009509, AC006079, AL008715, AL031283, AC002045, AC004859, AC006121, AC006016, U95740, AC004750, AC005568, AC006381, AC002365, AF123462, AC004668, AL022165, AC004703, AC006487, AL034421, AC008134, Z95703, AC007551, AC004552, AP000503, Z83840, AF134726, AC007559, AL020998, AC005885, AL117338, AC005702, AP000350, AC005952, AC007226, AC005829, AC002470, AC004941, AC009464, AC007199, Z98749, AC005621, Z98036, AL049843, AL049759, AC005409, AL050308, AC005349, AC007193, AL080243, AL080250, AC006064, AC004990, Z98950, AL050322, AC007395, AF109907, AC005217, AL035079, AC002984, AD001527, AC002996, AC007308, AC002039, Z98048, AP000008, AP000704, AC002517, AC005531, AL049776, AC002395, AC005512, AL035420, AC002472, AC002477, AL121591, AP000308, AL031186, AP000048, AC004656, AC004695, AC004821, AC005696, AC004929, AC003029, AC009263, AC003071, AC004159, AF031075, Z83839, AC006323, AC004002, AC005856, AC005914, AC003682, AC007386, AC006255, A98026, Z81000, AP000279, AP000106, AP000038, AC002431, AC007388, AC003035, AC004817, AL022151, AF045555, AL034369, Z93241, AP000353, AC001231, AC002381, AC005081, AL035070, AC008072, AF002994, AC004042, Z82190, AL031466, AC002407, AC006061, AC005800, AC006006, AC004843, AC007681, AC004383, AC002312, and AL133246.
HSAC7D30	5661	692708	1 - 300	15 - 314	D57483, D58283, D51423, D80043, D59275, D80253, D80166, D80195, D80022, D59619, D80210, D51799, D80391, D80240, D80227, D59859, D59502, D59859, D80212, D80196, D80188, D80219, D80038, D59927, D81030, D80269, C14331, C14389, D80366, D59787, D80193, D50979, D59610, D59967, D80164, C14429, D50995, C15076, AA305409, D80024, D80378, D80241, D80045, T03269, Z75259, C14014, D51060, D80251, AW178893, D80134, D51022, AW179328, AA305572, AW177440, D81026, AA514188, D80248, D51250, F13647,
HSAC7E47	5662	887420	1 - 503	15 - 517	

HS/AZE66	5663	725704	1 - 510	15 - 524	<p>AW378532, D51079, D80522, D58253, AW17875, AW369651, D80168, AW360811, AA514180, D80133, AW17862, C14227, D81111, AW352158, AW177505, AW375405, D80132, A910186, AW177501, AW177511, AW377671, AW375170, D51582, C05695, AW376629, D80268, AW360844, AW360817, AW375406, AW378534, AW179332, AW377672, AW179023, AW178905, C14298, C14407, C06015, D80664, D80247, A905856, AW352117, AW179024, AW176467, D80302, AW352171, D80439, AW377676, AW178906, AW177731, AW178907, AW179019, AW179020, AW378540, D59373, AW360834, AW360841, AW178909, AW177456, AW352174, AW179329, AW178980, A2285331, AW177733, AW378528, AW178908, AW178754, AW179018, D51103, T11417, D51097, AW179004, AW179012, A1557751, AW178914, AW378525, AW367967, D80014, D80157, C14077, AW177722, AW177728, D59503, AW179009, D51759, AW178774, AW178911, AW378543, AW352163, D58246, AW178983, AW178781, T48593, D45260, D80258, AW177723, D58101, AW352120, D59653, D59627, A1535850, C14975, A1557774, AW178986, A1525923, AW177497, C14957, D51231, D50981, AA809122, T02974, D51213, AW178986, A1525923, AW177497, C14957, D51231, D50981, C14344, AW177734, T03116, A1525917, D45273, D59317, C14973, D60010, D51221, D59474, A1525920, AA514184, A1535686, C14046, D59551, A1525242, D60214, A1525227, A1535961, A1525235, T03048, A1525222, C16955, Z33452, A1525912, AW378542, A1525925, AW378539, A1525215, C05763, H67838, AW360855, A1525237, C04682, A84916, A62300, A131210, A62298, A018138, Y17188, X67155, A008278, AF058696, A67220, D89785, A78862, D26022, A25909, D34614, A028859, D88547, Y12724, X82626, B2448, AR025207, A82595, A8002449, A94995, A016808, AR060385, X68127, AR084443, A8012117, AR066482, I30126, I50132, I50128, I50133, A85396, A44171, AR066488, AR016514, A85477, I19523, A86792, AR060138, U87250, A45456, AR054175, A26615, AR052274, X93549, A43192, A43190, AR066490, Y09669, AR038669, AR066487, I18367, A30438, I14842, Y17187, D50010, AR008277, AR008281, D88507, A63261, T79511, X64588, AR008408, AR062872, A70867, AFI35125, AR016691, AR016690, U46128, D13509, A64136, A68321, AR060133, U79457, AFI23263, AB033111, AR064240, AR032065, X93535, A022656, and AR008382.</p> <p>A1571656, T48723, F27015, A710180, A1471455, AA946848, A1687343, A961536, A4657835, AA728894, AA440368, N41775, A1076236, A801649, A1583291, A8110647, AA992126, AA514020, A156440, A157005, A1028510, F23327, A4533054, R69819, AA4298362, AW083934, AA229776, A1583142, F30138, AA485289, H79308, A1026078, F06088, A1025181, H62530, AA527934, A1824476, A1340151, AA399710, I12857, T47138, AA608561, A1823705, A9225065, A1025930, AW088631, AA232928, N68449, T50363, AA262769, AA478892, AW238253, H24957, A4559205, A1880324, Z84487, ALD049776, ALD031602, ALD035407, AC007371, AC005189, AC006487, AC005332, ALD009179, AC008069, U80017, AC002432, AC005696, AC006211, ALD034429, AC007684, AC006948, AC004383, ALD02232, AC0202663, AC008372, AC006126, AC006312, Z98200, AC006079, AC004099, AC002310, AC007327,</p>
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	15 - 348			
	15 - 502			
	15 - 210			
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HISA2P34	5672	796044	1 - 482	15 - 496
				AA295039, AC007793, AC005250, AP000345, L78810, AC005664, AC005547, AP000346, AC008069, and AC002563.
HISA2Q04	5673	927174	1 - 438	15 - 452
HISMBAB04	5674	927420	1 - 320	15 - 334
HISMBAB53	5675	775757	1 - 332	15 - 346
HISMBB53	5676	964887	1 - 142	15 - 156
HISMBBD29	5677	690190	1 - 560	15 - 574
HISQFR23	5678	676362	1 - 425	15 - 439
HISYAD19	5679	668590	1 - 118	15 - 132

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AF113615.					
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15 - 353					



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HT2SA18	5689	522773	1 - 430	15 - 444
HT2SF05	5690	923853	1 - 534	15 - 548
HT2SF45	5691	522759	1 - 307	15 - 321
HT2SG56	5692	870913	1 - 432	15 - 446
HT2SG66	5693	522753	1 - 320	15 - 334
HT3AG28	5694	973645	1 - 225	15 - 239
HT3AH13	5695	527913	1 - 406	15 - 420
HT3BA84	5696	509190	1 - 398	15 - 412
HT3BB93	5697	530750	1 - 252	15 - 266
HT3BC30	5698	691009	1 - 327	15 - 341
HT3BF34	5699	534887	1 - 280	15 - 294
HT3BG05	5700	932557	1 - 352	15 - 366
HT3BG34	5701	527779	1 - 229	15 - 243
HT3SA07	5702	954360	1 - 315	15 - 329
HT3SB36	5703	958400	1 - 939	15 - 953
HT3SF46	5704	522600	1 - 300	15 - 314
HT3SF93	5705	791423	1 - 515	15 - 529
HT3SG30	5706	52532	1 - 353	15 - 367
HT4CF32	5707	887174	1 - 1695	15 - 1709
HT4CL83	5708	974117	1 - 476	15 - 490
HT4CM20	5709	805558	1 - 435	15 - 449
HT4FN75	5710	686279	1 - 114	15 - 128
HT4FS23	5711	952837	1 - 231	15 - 245
HT4FY06	5712	935056	1 - 73	15 - 87
HT4GF30	5713	870887	1 - 395	15 - 409
HT4GJ85	5714	909971	1 - 514	15 - 528
HT4SB45	5715	522502	1 - 385	15 - 399
HT4SE86	5716	531561	1 - 409	15 - 423
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				AC005137.
				AW007604, and AL021938.
				AW297280.
				AA601968.
				AA380995.
				AC004111.
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				AA143077, AI560342, and AC005781.
				AI347001, AI343380, AI693849, AI829933, AI394727, AA604808, AA729929, AI693841, AW293065, AA748867, AI745694, AF116509, AF116510, AF116508, AF218235, AF147782, AF175387, and Z84484.
				H50788, AW404210, AA355417, and AB018335.
				15 - 490
				15 - 449
				15 - 128
				15 - 245
				15 - 87
				15 - 409
				AI871007, AA773904, AI127475, AI523587, AI862655, AI830621, AW134689, AI768600, AW274750, AA142876, AI825831, AA633463, AI307774, AI916645, AA576383, AA143146, AI334590, AI867665, and AI867677.
				AA306449, Z97832, and X96705.
				AA381059, and AC005344.

HT4TB12	5717	870955	1 - 263	15 - 277	AA236660, AA381041, AW001285, AB372981, AB189838, AB1719948, AB1571409, AB1597639, AB1506384, AB827059, AB356508, AW275578, AB971646, AW274489, AB863800, AB1860948, AB1568, AB311083, AB41515, AA953361, AB98787, AA701412, and AD006071.
HTSAAD70	5718	960050	1 - 154	15 - 168	AA381071, AA381084, and AA380862.
HTSAH76	5719	921539	1 - 120	15 - 134	
HTSAI96	5720	728624	1 - 76	15 - 90	
HTSEA69	5721	932159	1 - 475	15 - 489	B34942.
HTSEU04	5722	531203	1 - 467	15 - 481	AF017104, and AC016831.
HTSEU59	5723	739092	1 - 341	15 - 355	
HTSFDS1	5724	697721	1 - 323	15 - 337	
HTAAAG8	5725	733636	1 - 307	15 - 321	AA381204.
HTAAAT4	5726	960479	1 - 777	15 - 791	AA167683, AA381245, AA381209, AA381208, and AC000159.
HTAAC05	5727	932913	1 - 432	15 - 446	AA381237, AA381536, AA381939, AB381906, AA381885, HT2587, HA5806, AB183392, AA569448, AA287046, AA355128, AB96092, AA740219, AA745373, AB128881, AB1590404, RS3995, N76031, AA381687, AA767571, C16638, AW269071, AB19337, AB161090, AA363968, AW271095, AW302832, AB219590, AB284536, AB251563, AB252141, AB733946, AW021007, AB733930, AB792695, AB792746, AB792842, AB7026305, AB252190, AB792856, AA485289, AB151549, AB373861, AB090629, F09631, AA206594, AA453151, AB246061, AA486352, H68328, AB440709, AB791126, AB117895, AB054090, T65131, AB251241, AB249853, AB1884861, AB284543, AB254770, AB251944, AB251034, AB251203, AB251284, AB250552, AA598608, AA491361, AB354341, AB337805, F25640, AA814719, AA078088, T89662, AB042869, AA729004, AB381652, AA381713, F30497, AB610530, AB254781, F00211, AB297930, AA020882, AW086117, H38817, R01095, AB394790, T40550, AA878407, AB194558, AA493701, AA526673, AA295899, AB21025, AB359368, AB21314, T10218, AB491722, AW087226, AB664248, AB4780648, AB245693, AB351548, T41166, AB1031589, AB000359, AC00231, AC005346, AB121754, U07562, AB023553, AC005911, AC005781, X59875, AC005380, AC006130, AB1031666, AB099179, AC008115, AC006538, AB049540, AC004834, AC004765, AC004383, AB131939, AC005602, AC004891, AC006251, AB1033413, U63721, AB1035681, AB105416, AB1021391, AB1080243, AC007052, AB1022726, AC006536, AC005208, AB1035410, AC002395, U91323, AB1033527, L47234, AB1049713, AC004930, AC004825, AC004525, M20902, U36755, M26434, Z85987, AC010072, L29074, AC007066, AC005799, AB064861, U89335, X02883, AB1035450, AC004966, AC006121, AB1096801, AC006539, AC007934, AB101930, AC003051, AC019014, AC006137, AB1034582, AC007421, AC006141, AB1031983, AB1031650, AC003080, AC007450, Z69706, AC004778, Z73417, AB1096774, AB1035398, AC006077, AB000668, AB000608, AB1031659, AC004250, AC004804, AB1031285, AC007488, AC007226, AC005618, AC005746, U62293, AC004975, AC005057, AC002072, AB108631, AB1021367, AC005913, AC002330, AC002365, AB1033012, AB1031777, AB000126,

HTAAAG63	5728	578537	1 - 447	15 - 461	AP000204, AL049843, AP000244, AC005585, AC007327, LI3304, LI3715, AC004253, Z95113, AC005566, AC007199, Z98016, AL009181, AC005399, AP001053, AC005736, Z86090, AC002553, AB010492, AC005776, AL035072, AL023375, AC007124, AL050334, AC004973, AC004808, AC006367, AC006512, AC005920, U77924, AC003109, Z82206, AC004992, AC006292, AJ003147, AL035659, AC005846, AL022396, AC002400, AC005821, AC005132, AC004126, AC006950, AC004170, AB017602, AC006017, AL050309, AL008720, AC006537, AC007370, J03071, A51133, A76958, Z83846, U73479, AC005907, AC003956, AC005369, AC002425, AF196972, Z98950, AC002477, AC007628, AP001052, AL033397, AC008124, AF11167, X51956, AC004832, AC005531, AC007371, AC005581, AC004699, AC006255, AC005210, AC006030, Z93930, AC004997, AC002404, AL034420, Z93241, AC005152, AC005856, and AC006344.
HTAAP36	5729	629270	1 - 286	15 - 300	AA381924, AA381526, AV006162, AL150151, AW003573, AW277490, AA382744, AA676670, AA400188, AA608773, AA148109, AA913954, AA905227, AA400346, AW241479, AL654709, AL214730, AW207216, AA905243, AL554052, AL208940, AW235898, AW274535, AA569339, AL913386, AL635370, AW207054, AW161786, AP000553, and AF060862.
HTAAP96	5730	518454	1 - 223	15 - 237	AA381811, AA381271, and AA381671.
HTAAQ82	5731	952304	1 - 602	15 - 616	AA381587, AA381772, and AA381998.
HTAAU76	5732	508527	1 - 306	15 - 320	AA381744, AA381925, AL045797, and AL045505.
HTAAU78	5733	870884	1 - 117	15 - 131	AA381390, AA381725, AA319995, and AA381962.
HTAAW11	5734	961231	1 - 235	15 - 249	AA381616, AA381615, AA381569, and AA382076.
HTAAW46	5735	719422	1 - 264	15 - 278	AA381409, AA381410, AL133180, AL459866, AC006039, AC004905, AB020863, AC007680, AP000557, AC002395, AC004895, AP001053, AC005924, AC006210, AC005332, D86077, AL023575, AL159054, AL031276, and Z84719.
HTAAW81	5736	535295	1 - 295	15 - 309	AA381642, AA381664, AA381728, AA381608, and AA381961.
HTAAY89	5737	575304	1 - 132	15 - 146	AA381991, AA381750, AA381819, and Z84474.
HTABES1	5738	960936	1 - 275	15 - 289	AA381803, and AA381336.
HTABE93	5739	509675	1 - 288	15 - 302	AA381313, and AA381844.
HTABE52	5740	535399	1 - 302	15 - 316	AA381789, AA381881, and AA381457.
HTABH72	5741	508952	1 - 315	15 - 329	AA381500, and AC004885.
HTABG03	5742	960931	1 - 327	15 - 341	AA381713, AA381652, AA381821, AA381687, AA381686, AA381597, AA381596, AA381847, AA381685, AL559282, AA578626, AA373861, AA229653, H66631, AC005838, AC002544,

					191326, AL031589, AC003959, AC006165, AP000352, AB012723, AC006958, M90058, Z93930, Z84466, AL031663, AL031588, AC005192, Y10196, AC002542, Z95114, AF031078, and AF030876.
HTABG44	5743	508366	1 - 128	15 - 142	AA381864.
HTABG83	5744	518355	1 - 164	15 - 178	AA381660, AA381544, AA381729, and AC004242.
HTABG87	5745	940153	1 - 230	15 - 544	R01633, AA381661, AA381405, and AR044136.
HTABJ93	5746	508441	1 - 250	15 - 264	AA381933, AA381875, and AA382012.
HTABK73	5747	835945	1 - 339	15 - 353	AA381761.
HTABN17	5748	954400	1 - 334	15 - 348	AA381836, AA381752, AA381908, AA382062, AA381970, AA382016, and AA381780.
HTACLI04	5749	925571	1 - 338	15 - 352	
HTACN31	5750	974314	1 - 394	15 - 408	
HTACP19	5751	975073	1 - 580	15 - 594	AL080243.
HTACP52	5752	537439	1 - 89	15 - 103	
	5753	968997	1 - 563	15 - 577	AB968466, AB002312, and AB032254.
					AA287087, AA651846, AA601230, AL253519, AA551906, AA256949, AL079769, AL925776, AA479930, AA491864, AA159046, AW402143, AA557604, AA828046, FI1809, AL745457, AA501614, N24321, AA363225, AL78972, AA904231, AA526193, AA747632, R70326, AC007934, AF190465, AC004530, AC002565, AC004837, Z93930, AC002404, AC006537, AC006112, AC005280, Z82215, AL109865, AL049795, AC007676, AC004821, AL020993, AC003046, AC003982, AC006241, AC005217, AF037222, AC005288, AC004520, AL031733, AL133163, AC011604, AC007239, AL031666, AC004953, AC006101, AC007262, AC005531, AC002470, AF053356, Z23091, AL139054, AC003044, AL021391, AL050307, AC005304, AC005702, AC005829, AC002073, AC004228, AF165926, AL035089, AC006115, AC004814, AC006160, AC005529, AC004167, Z68282, AC007298, AL031637, Z86090, AC006965, AC007551, AC004686, AC007537, AC006449, AL021154, AL117592, L7810, AC007229, AF196779, AC004000, Z92542, AC005632, AC002123, AL021331, AC000085, Z85999, AC006197, AC004638, AL033327, AC004884, AL023879, Z83844, AC007057, AL049872, Z99716, AB023049, AC005971, AC005730, AC002347, AL034411, AL035086, AL080243, AP000512, AL033397, AC006603, AC005527, AP000961, AP000704, AL035450, AL078477, AC004883, AB002312, AC005844, AC004019, AL049694, AC007151, Z93244, AC005138, AP000535, AC005486, AL035632, AC005335, AC000092, and AC005746.
HTACR92	5754	918250	1 - 295	15 - 309	
HTACS45	5755	537433	1 - 109	15 - 123	AC000159.
HTACS46	5756	537435	1 - 284	15 - 298	
HTACT29	5757	537377	1 - 301	15 - 315	
HTACU21	5758	504612	1 - 130	15 - 144	AA381989, and AL225782.
HTACU80	5759	777608	1 - 194	15 - 208	AA308896, AA299220, Z83840, AF134726, AL078644, and AC006026.

HTACW17	5760	961560	1 - 313	15 - 327	AL479338, AW193956, AW204083, AL042363, AA286986, AW135497, AL066644, AL436295, AA018355, AL333268, AW182032, AA278842, AL007168, H43862, AA761285, AW293924, AW293036, and AW250094.
HTACY32	5761	531492	1 - 431	15 - 445	
HTACY49	5762	557836	1 - 350	15 - 364	
HTAD22	5763	507146	1 - 367	15 - 381	AC006486, and X97703.
HTADC11	5764	965757	1 - 335	15 - 349	H04057, R81380, and AL087942.
HTADH05	5765	932470	1 - 116	15 - 130	
HTADH61	5766	955245	1 - 210	15 - 224	
HTADH11	5767	964944	1 - 226	15 - 240	
HTADH93	5768	870820	1 - 259	15 - 273	
HTADJ25	5769	537427	1 - 295	15 - 309	
HTADJ36	5770	773764	1 - 447	15 - 461	Z94160.
HTADK40	5771	537423	1 - 447	15 - 461	AW411107, and R82922.
HTADM61	5772	550342	1 - 460	15 - 474	
HTADQ83	5773	734996	1 - 228	15 - 242	AA306284, AA348482, U51715, AL010293, AA337287, AA319313, AA486319, AL039891, AL936644, AL634534, AL693668, and D87442.
HTADQ93	5774	537418	1 - 110	15 - 124	
HTADR41	5775	934435	1 - 347	15 - 361	Z97989.
HTADW69	5776	537428	1 - 293	15 - 307	
HTAED78	5777	761591	1 - 413	15 - 427	AL133243.
HTAEF32	5778	927101	1 - 579	15 - 593	
HTAEH74	5779	974303	1 - 365	15 - 379	
HTAEJ77	5780	930978	1 - 414	15 - 428	AA381361.
HTAEK78	5781	773763	1 - 518	15 - 532	
HTAEL90	5782	958220	1 - 134	15 - 148	
HTAE084	5783	537374	1 - 91	15 - 105	AL109738.
HTAER18	5784	574021	1 - 272	15 - 286	
HTAES82	5785	537373	1 - 342	15 - 356	AC005669.
HTAET86	5786	969532	1 - 284	15 - 298	
HTAEU76	5787	767963	1 - 556	15 - 570	AA533822, AA887181, R44042, AL064955, H05828, AA613954, AA654852, AL311234, AA424170, AL034399, AC004875, AC005924, AL031427, AC006343, AL111168, AC006241, AC009399, AC007277, AC005095, AL049780, AC005701, AC005552, AC005903, AL050332, AC006057, AL024508, AL031681, AC006530, AL109623, AC007207, AL050334, AL121655, AC008045, AC007014, AC007193, Z93022, AL031291, AL034548, Z99716, AP000281, AP000039, AP000107, Z98884, AL109628, AC005347, AC005364, AF109718, AC005156.

HTAEV65	5788	838803	1 - 588	15 - 602	298044, AC010170, AL121603, AC005632, AC004819, AC004491, AC005323, AC007685, AL133448, AL133555, AC004987, AL031673, AC005102, AL035659, AL109963, AP000111, AP000443, AC005084, AC005606, AL009183, AL251973, AC003110, AC006367, AC008040, AC004585, AC003010, AP000501, AL022238, AL022238, AC003048, AC004589, Z85986, AC005318, AC007283, AC005061, AF165926, AC005332, AC005363, AL021808, AC001231, AC002430, Z93930, L44140, AC004699, Z84466, AL049836, AC006974, Z02547, AL050306, AC004821, AC005529, AC002468, AC004916, AF108083, AL031228, and AC005089.
HTAEV65	5789	838803	1 - 588	15 - 602	AL118881, and AA569067
HTAEV87	5789	971526	1 - 323	15 - 337	AA381722, AA381242, and AA381829.
HTAEV95	5790	760986	1 - 449	15 - 463	
HTAEV96	5791	881092	1 - 474	15 - 488	AA381840, AA381799, and AA381872.
HTAEV96	5792	934570	1 - 417	15 - 431	AC004551.
HTAEV66	5793	868433	1 - 622	15 - 636	
HTAFC37	5794	973085	1 - 1047	15 - 1061	AI867175, AI654803, AI825698, AI633971, AI692176, AI632546, AI339492, AI003917, AA669506, AA968579, AA889250, and AI634422.
HTAFC76	5795	767976	1 - 470	15 - 484	AC005480.
HTAFD63	5796	744409	1 - 54	15 - 68	
HTAF669	5797	944409	1 - 701	15 - 715	AI962030, AL038842, AA765925, AA832444, AA664043, AL079734, AA302991, AA084609, AA581247, AA452887, AI590906, AI066646, AA493226, AI335995, AI263264, AI755202, AA736695, AI568088, AI357823, AI955029, AI749527, AW328000, AC006312, AL121595, AL031848, Z98200, AC007263, AP000501, AF111168, AC006512, AL035587, AC002375, AC005952, AC004150, U91322, AL049712, AL133353, Z98051, AC004975, AC009784, AC002115, AC005004, Z93930, AL133244, AL080243, AC004821, AC006121, AC005412, AF134726, AF031078, Z93923, AC005527, AC004895, AC005255, AC008115, AC006468, AP000552, Z94721, AF030876, AC004891, AL049776, AC005702, AP000511, Z93331, AC005102, AL096794, Z85987, AC004967, AC004745, AC005920, AC005736, AC004354, AC006380, AP000502, AC007011, AP000030, AC005971, AC004851, AC008583, AL021707, AC005197, AC006480, AC005049, AC004813, M89651, AP000212, AP000134, AC004913, AC005529, AL031680, Z97353, AC007225, AB023051, AL096791, U91326, AL021391, AC004859, AL109847, AC005513, U95742, AC005914, AC005089, Z98036, AP000362, AC007686, AL031767, AL031311, AL035461, AL008715, AF196970, AC005071, AC005784, AC006043, AL049839, U85195, AP000031, AC000134, AC006277, AC005082, AL031602, AC005288, Z98884, AL049829, AC002350, Z75389, AL021878, AC005081, AF000658, AC007376, AC004797, AC005829, AC005028, AC006966, AC002301, AP000692, Z83826, AC006211, AC005924, AP000557, AC007731, Z94160, AC005500, AC002116, AC007193, AC006952, AP000512, AB017602, AL035071, Z85996, AL033525, Z83840, AC0060511.

HTAF90	5798	787604	1 - 369	15 - 383	AC005821, AC004024, AC008055, AC005549, AL031133, AC000003, AP0000130, AP000208, Z93241, AL096701, AC004953, AC002395, AL049766, Z84486, AL023807, AC004921, AP000967, AC002257, AL022315, AL049780, AC007688, AC005701, AC007055, AL122020, AC007736, AC006252, AC005067, AL031584, U91321, Z93017, Z86090, AL079342, AC007216, AL020998, AC005740, and AL035410.
HTAF91	5799	933028	1 - 325	15 - 339	R20183, AA485189, F06553, and AB030181.
HTAF92	5800	767968	1 - 379	15 - 393	AA381467, Z92927, and Z55213.
HTAF93	5801	974338	1 - 709	15 - 723	
HTAF94	5802	870854	1 - 531	15 - 545	AW007759, H73550, AA584489, AA720702, AA644090, AL064864, AA847508, AW151541, AL017251, AA847427, AL446464, AL037910, AA702539, AA702080, AA608520, AA664604, AL061313, H93293, AW302709, AA555229, AA338234, AL040051, AA533281, AA629540, AL205181, AL537955, T05834, AL031759, AL038842, AL079869, F23327, AL77595, H63660, AL491867, AL004591, AA634786, W79504, AA523843, AA579427, AL095197, AA571331, AW238127, AA720582, AL045077, AL045038, AW438616, AL689385, AA452924, AL031228, AC005274, AL035458, AL035450, AC005358, AC021092, AC004242, AC005666, AF111168, AP001053, AL031005, AC005940, AL031668, AL135745, AC009247, AL034420, AC004895, AF053356, AL000092, AC003755, AL049697, AC004963, AC005971, AC008123, Z98051, AC003681, AL000115, AC007406, AL009984, AC004686, AL133448, AL031295, AC005921, AL003147, AL049636, AF001530, AC005300, AF045555, AC005670, AL008735, AC005982, AL096701, AL078463, AC007308, AC004887, AC003083, AL049795, AF134726, AP000557, AC005703, AC005200, AC004472, AC005288, AC006213, AC005393, AL078611, AF217403, AL021808, AC004263, AC005969, AP000338, AC006960, Z82215, AC005083, AC008249, U95742, AF107885, AP000216, AC006050, AC006057, AC007102, Z93241, AF047825, AC007685, AL031311, AC007114, AL035423, AC002312, AC007182, Z84479, AC005828, AC005519, Z83840, AL022315, AC002126, AC002429, AC005209, AC005740, AC005244, AL075881, AC005774, AP000252, AC007226, AL078476, AL050338, AL022322, AC005086, AL009031, AC003682, AC006241, AC016830, U91327, AC002425, AC006273, Z93017, AL096791, AL110502, AC002585, AL049757, AC000379, AC005180, U95743, AC004765, AC005324, AC006515, AC007216, AL031053, AL022476, AF029308, AC006001, AL031429, U89337, AC005154, AC005859, AC007676, AC000090, AC007666, AL049843, AF039907, AC006023, AB001523, AC006430, AP000354, AC000041, AC005484, AC006039, AP000962, AL080241, AL049712, AL049712, AC007193, AL031584, AP000512, U85195, AC005320, AC008044, AC005535, AC005527, AC002326, AC007227, AL121603, AC004837, AC005015, AC008404, U15422, AC003692, AC006071, Z84469, AC003086, AC005412, AC005195, AC007214, AF000658, AL031432, AC004388, AC004883, Z84488, AC005482, AP000031, AC002470, AC005695, AC006195, AC000025, AC000052, Z89705, AP000152, AC006449,

					AL035494, AC007686, AL031283, AF129756, AL035249, U62317, AF091512, AL021807, AL022163, AC005907, AC004019, AC004754, AC006539, AF165926, AF227510, Z83846, AL031347, AC007041, AL080243, AC005242, AP000044, AP000112, Z84484, AC005821, AC004228, AL050318, AC005991, AC005913, AP000356, AL139054, AC004646, AC006607, AC008071, AL049760, AC012627, AL035420, AL135783, AC010722, AC009191, AC005231, AL117354, AC006128, AL022318, AP000502, AC006958, AL022327, AC009516, AC007376, AC007160, AC009501, AL109827, AC005783, AC004099, AC007228, AC007731, AP000355, AC003111, AC007707, AC005500, AL030996, AC004797, AC003101, AP000359, AC002981, AC005212, AC002310, AL031133, AC005187, and AP000511.
HTAGA71	5803	870853	1-292	15-306	
HTAGB89	5804	974060	1-392	15-406	
HTAGC91	5805	963125	1-386	15-400	AL041135, AB023229, and AJ236382.
HTAGD29	5806	925699	1-418	15-432	
HTAGI53	5807	936117	1-193	15-207	
HTAGL61	5808	963182	1-524	15-538	AW299622, AA031204, H92418, and AC004849.
HTAGN04	5809	926501	1-620	15-634	R02305.
HTAGV46	5810	847777	1-564	15-578	
HTAGV49	5811	836078	1-507	15-521	AW070228, and AA669099.
HTAGZ11	5812	965867	1-459	15-473	AC006101, AP003026, AC004966, Z93930, AL035684, AL133163, AB013139, AC004815, AF047825, AC004612, AC004832, AL049776, AF069291, AC002551, Z86090, and AF049895.
HTAHH17	5813	860919	1-324	15-338	AA381758.
HTAHL49	5814	934013	1-490	15-504	
HTAHLK12	5815	920332	1-544	15-558	
HTAHL28	5816	974030	1-399	15-413	
HTAHL45	5817	908949	1-649	15-663	
					R35096, RI7249, D58283, D59502, D80195, D59775, C14389, C14331, D51423, D80038, D81026, D59467, D80164, D80227, D59839, D80022, D80253, D80166, D59619, D80210, D51799, D80391, D80240, D80043, C15076, D59787, D81030, AA305578, D80269, D51022, D80522, D50979, D80212, D80193, D80196, D80188, D59610, D80045, D80219, D59889, AA514188, D59927, D57483, C14014, D80378, D80366, AA305409, D80024, D50995, D80248, C14429, AW177440, AA514186, AW360811, D80241, D80251, D80133, D51060, AW178893, D80302, AW375405, D80268, T03269, AW377671, AW179328, AW366296, AW360844, AW360817, C75259, AW375406, D80439, AW378534, AW179932, AW377672, AW179023, AW178905, D80247, AW178906, AW177501, AW177511, AW378532, C05695, AW352171, AW352170, AW377676, D51103, D80132, AW177731, AW178907, AW178762, AW179019, AW179024, D58253, D59373, D80134, D51250, AW177505, AW360841, AW179020, AW178775, AW178909, AW177456, AW179329, AW369651, AW178980, AW177733.



HTAHL76	5818	974300	1 - 470	15 - 484	<p>AW378528, AW178908, AW178754, AW179018, AW352158, AW352117, D80157, AW367967, AW176467, A84916, A8028859, A1132110, A62300, A62298, AR018138, AR008278, AF058696, A82595, X67155, Y17188, D26022, Y12724, A25909, A67220, D89785, A78862, D34614, A94955, AR060385, AB002449, D88547, AR008443, I82448, X82626, I50126, AR016808, I50132, I50128, I50133, AR066488, AR016514, AR025207, AR060138, A45456, A26615, AR052274, Y09669, A43192, A43190, AR038669, AR066490, AR066487, I14842, A30438, I18367, AR054175, D50010, Y17187, A63261, AB012117, AR008277, AR008281, AR008408, X64588, AR062872, A70867, X68127, AR016691, AR016690, I79511, I46128, A83596, D13509, D88507, AR066482, A44171, A64136, A68321, AR060133, A85477, I19525, A86792, X93349, AR060382, U79457, AF123263, AR032065, and AR008382.</p> <p>AW002350, AA428792, AW303008, AA602047, AW021627, AA730422, A1630283, AA297734, AW021583, A1D49849, AA476397, A1590485, A1217936, T92271, AA236903, A1868384, C18521, A1932598, C18840, A1937125, AA092571, AA890425, AA526316, AA487621, AA715090, A1554738, AA488746, A1037052, H84675, A1564454, A1368256, A1635819, A0683238, AA831700, A1123396, A1370104, AA384733, AA483108, AA297769, A1045808, A1046156, A1819140, AA854993, A1525319, AW276835, A1036251, AA487417, AW068896, A1224093, AA719292, A1038473, A1754271, A5388001, A1755164, N64259, AW276748, AA564570, AA812141, A1088768, A1047429, N35602, AW177003, A1629872, A1149313, A1924872, A1890324, A1434686, A1037554, A5700230, AA866559, AA286669, A1040266, A4018283, A1766906, A1633479, AA431949, A1051457, A1828710, A1022608, AA370455, A434186, A1249473, AW302950, A1138182, AW084445, AC005375, AC006930, AC005225, AC004234, A1049829, AC004087, A1022237, AC004675, AB002390, AC006537, A1030995, AC004150, A111168, AF088219, Z97352, Z85987, Z83843, AC005730, AC007637, AP000700, U44395, AC004808, A1133245, AC002365, L44140, Z82206, A1023877, AC006019, AC004916, AC004327, U95740, AC000379, A1031602, AC000117, A117258, U67221, AC002120, Z54072, AC004149, Z93023, A1078477, A1008633, A1031295, Z97987, Z84488, AC005598, A1223364, AC004778, A1023882, U51561, AC005568, AC004257, U07562, AF017732, AC007360, AC006004, A1034451, A1049539, AP000345, AC004933, A1132712, AC004386, A1808043, U95743, AC005703, A1078638, A1021368, A1031259, AC005395, A1133249, AC005284, AC005291, AC005046, AP000253, AC007191, AC003086, AC006354, AC007685, AC0060459, AF017885, AC002538, A1042836, AC006996, AC004755, U07563, AC011718, AP000126, AP000204, AC002124, A1032330, Z83841, AC008044, Z84466, AC004253, AP000244, AC007934, AC002109, A1133500, U50429, AC008076, AF038458, AC005911, AF155238, A1008631, AC004098, AC006518, AC007564, U47924, AF009660, AC004855, AC005183, AC006599, A1023578, AF015416, A109827, A1031659, AF003962, A1035587, AC002477, A1033521, A1050325, AC004953, A1034548, A1034549, AC006987, Z98950, AC008249, U91322, A1049837, Z00017, A1078621, A1035069, Z54334, Z68289, AC004034, A1031393,</p>
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HTAHN29	5819	923115	1 - 252	15 - 766	
HTAHQ22	5820	870831	1 - 275	15 - 289	
HTAHQ94	5821	839505	1 - 506	15 - 520	
HTAHR03	5822	922772	1 - 417	15 - 431	
HTAHR06	5823	934062	1 - 451	15 - 465	
HTAHS10	5824	963183	1 - 415	15 - 429	
HTAHS21	5825	960795	1 - 503	15 - 517	AA381575, and AC002528.
HTAHV04	5826	926747	1 - 435	15 - 449	AL572619, AL1814836, AL6861747, AW167851, AL202106, H86259, H85857, AA059020, AL096537, and AC005757.
HTAIB11	5827	965835	1 - 246	15 - 260	
HTAIC05	5828	930951	1 - 806	15 - 820	W87576, AA694098, W87434, AL056858, AA676994, AA677352, R16832, AC006312, AF165926, and AJ006997.
HTAID04	5829	926541	1 - 389	15 - 403	AA381501.
HTAIF70	5830	974062	1 - 476	15 - 490	
HTAIF78	5831	870785	1 - 727	15 - 741	AA251602, and AA381714.
HTAIK75	5832	870815	1 - 458	15 - 472	
HTAIQ39	5833	921729	1 - 418	15 - 432	
HTAIQ75	5834	870804	1 - 401	15 - 415	AC002400.
HTAIR54	5835	870814	1 - 712	15 - 726	H67194, and H67182.
HTAIL80	5836	968234	1 - 448	15 - 462	AC006372.
HTAIV79	5837	870874	1 - 503	15 - 519	
HTAIG31	5838	926731	1 - 439	15 - 453	
HTAIG65	5839	975260	1 - 452	15 - 466	
HTAIJ01	5840	914899	1 - 244	15 - 258	
HTAIN08	5841	958057	1 - 146	15 - 160	R46278, R74243, and AA203640.
HTAIR30	5842	975309	1 - 484	15 - 498	D51221, D59467, AA305578, AA809122, T11417, D59317, D50979, D60010, D59551, D80164,